



Appendix B

E-UTRA Band 4



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1. TEST RESULT	3
2. PEAK-TO-AVERAGE RATIO (CCDF).....	11
2.1. TEST RESULT	11
2.2. TEST PLOTS	11
3. MODULATION CHARACTERISTICS	15
3.1. TEST MODE = LTE /TM1 20MHz	15
3.1.1. TEST CHANNEL = MCH	15
3.2. TEST MODE = LTE /TM2 20MHz	16
3.2.1. TEST CHANNEL = MCH	16
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	17
4.1. TEST RESULT	17
4.2. TEST PLOTS	18
5. BAND EDGE COMPLIANCE	37
5.1. TEST RESULT	37
5.2. TEST PLOTS	39
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	66
6.1. TEST PLOTS	66
7. FIELD STRENGTH OF SPURIOUS RADIATION	73
7.1. TEST MODE =LTE/TM1 20MHZ.....	73
7.1.1. TEST CHANNEL = LCH	73
7.1.2. TEST CHANNEL = MCH	73
7.1.3. TEST CHANNEL = HCH	74
8. FREQUENCY STABILITY	75
8.1. FREQUENCY VS VOLTAGE	75
8.2. FREQUENCY VS TEMPERATURE	75





1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#2	23.24	24.54	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	22.90	24.20	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.41	23.71	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.17	24.47	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.89	24.19	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.01	24.31	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.00	23.30	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.98	23.28	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.36	22.66	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.10	22.40	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.48	22.78	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.85	23.15	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.61	22.91	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	20.46	21.76	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.44	24.74	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.21	24.51	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.44	24.74	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.18	24.48	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.93	24.23	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	24.03	25.33	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.96	23.26	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.56	23.86	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.13	23.43	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.74	23.04	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.37	23.67	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.04	23.34	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.16	23.46	30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	1.4MHz	16QAM	19957	6RB#0	20.99	22.29	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	20.47	21.77	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.05	22.35	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	20.49	21.79	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.44	21.74	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	20.54	21.84	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	20.71	22.01	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.52	21.82	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.55	23.85	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.45	23.75	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.57	23.87	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.24	23.54	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	23.14	24.44	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.39	23.69	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.24	22.54	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.69	22.99	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.36	24.66	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.96	24.26	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	23.24	24.54	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	23.20	24.50	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	23.30	24.60	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.97	23.27	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	21.45	22.75	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.15	23.45	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	20.63	21.93	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.98	23.28	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.99	23.29	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.98	23.28	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.54	21.84	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.94	24.24	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.56	24.86	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.15	24.45	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	23.38	24.68	30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	3MHz	QPSK	20385	8RB#7	23.69	24.99	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	23.36	24.66	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.18	23.48	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.11	22.41	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.68	23.98	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.32	23.62	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	22.31	23.61	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	22.44	23.74	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	22.32	23.62	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.88	22.18	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	20.80	22.10	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.72	22.02	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.18	22.48	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.77	22.07	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.82	22.12	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.74	22.04	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.50	20.80	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.38	23.68	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.26	23.56	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.85	24.15	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	22.70	24.00	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	22.38	23.68	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	22.52	23.82	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.37	22.67	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.12	23.42	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.07	24.37	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.74	24.04	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	23.08	24.38	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.88	24.18	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.94	24.24	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.85	23.15	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.59	22.89	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	21.55	22.85	30	PASS





Band4	5MHz	QPSK	20175	1RB#24	20.83	22.13	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.81	23.11	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.74	23.04	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.77	23.07	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.61	21.91	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.67	24.97	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.18	24.48	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.19	24.49	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	23.35	24.65	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	23.25	24.55	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	23.90	25.20	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.36	23.66	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.58	22.88	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.42	23.72	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.03	23.33	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	22.19	23.49	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	22.03	23.33	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	22.07	23.37	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.78	22.08	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.00	22.30	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.67	21.97	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	20.94	22.24	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.49	21.79	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.56	21.86	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.63	21.93	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.59	21.89	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.77	24.07	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.53	23.83	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.58	23.88	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	22.48	23.78	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	22.41	23.71	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	22.86	24.16	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.51	22.81	30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	10MHz	QPSK	20000	1RB#0	23.22	24.52	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.67	23.97	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.78	23.08	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.70	24.00	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	23.09	24.39	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.89	24.19	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.76	23.06	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	21.60	22.90	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	21.76	23.06	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	21.84	23.14	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.05	23.35	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.91	23.21	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.98	23.28	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.74	22.04	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.49	24.79	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.77	25.07	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.48	24.78	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	23.94	25.24	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	24.16	25.46	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	23.45	24.75	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.39	23.69	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.09	23.39	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.04	22.34	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.58	23.88	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	22.13	23.43	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.83	23.13	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.93	23.23	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.58	22.88	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	20.75	22.05	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.08	22.38	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	20.90	22.20	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.76	22.06	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.66	21.96	30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	10MHz	16QAM	20175	25RB#0	20.76	22.06	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.43	21.73	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.67	23.97	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.05	24.35	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.54	23.84	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	23.12	24.42	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	22.54	23.84	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	22.75	24.05	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.84	23.14	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.63	22.93	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.28	24.58	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.50	23.80	30	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.57	23.87	30	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.63	23.93	30	PASS
Band4	15MHz	QPSK	20025	36RB#0	23.07	24.37	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.77	23.07	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.20	23.50	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.74	23.04	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.66	22.96	30	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.90	23.20	30	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.10	23.40	30	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.11	23.41	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	20.78	22.08	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.85	25.15	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.34	24.64	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.88	24.18	30	PASS
Band4	15MHz	QPSK	20325	36RB#18	23.45	24.75	30	PASS
Band4	15MHz	QPSK	20325	36RB#0	23.27	24.57	30	PASS
Band4	15MHz	QPSK	20325	36RB#39	24.26	25.56	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.21	23.51	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.59	23.89	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	20.98	22.28	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.72	23.02	30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	15MHz	16QAM	20025	36RB#0	22.11	23.41	30	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.63	22.93	30	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.74	23.04	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.27	23.57	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.74	22.04	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.28	22.58	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	20.72	22.02	30	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.89	22.19	30	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.64	21.94	30	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.90	22.20	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.15	22.45	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.27	24.57	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.86	23.16	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.52	23.82	30	PASS
Band4	15MHz	16QAM	20325	36RB#0	22.20	23.50	30	PASS
Band4	15MHz	16QAM	20325	36RB#39	23.22	24.52	30	PASS
Band4	15MHz	16QAM	20325	36RB#18	22.55	23.85	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.94	23.24	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.25	22.55	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.64	23.94	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.92	24.22	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.49	23.79	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.87	24.17	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.03	23.33	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.47	22.77	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.18	23.48	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.91	23.21	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	21.96	23.26	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.22	23.52	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.20	23.50	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.34	23.64	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	20.71	22.01	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.12	23.42	30	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	20MHz	QPSK	20300	1RB#49	23.11	24.41	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.70	25.00	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	23.44	24.74	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	24.50	25.80	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	24.27	25.57	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.66	22.96	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.36	23.66	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.85	23.15	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	20.56	21.86	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.97	23.27	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	22.06	23.36	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	22.03	23.33	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.05	23.35	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.20	22.50	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.06	22.36	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.20	22.50	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.35	22.65	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.35	22.65	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.36	22.66	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.22	22.52	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.13	22.43	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.02	24.32	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.48	23.78	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.29	22.59	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.28	22.58	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.29	22.59	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.37	22.67	30	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA, CNAS, CAL Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

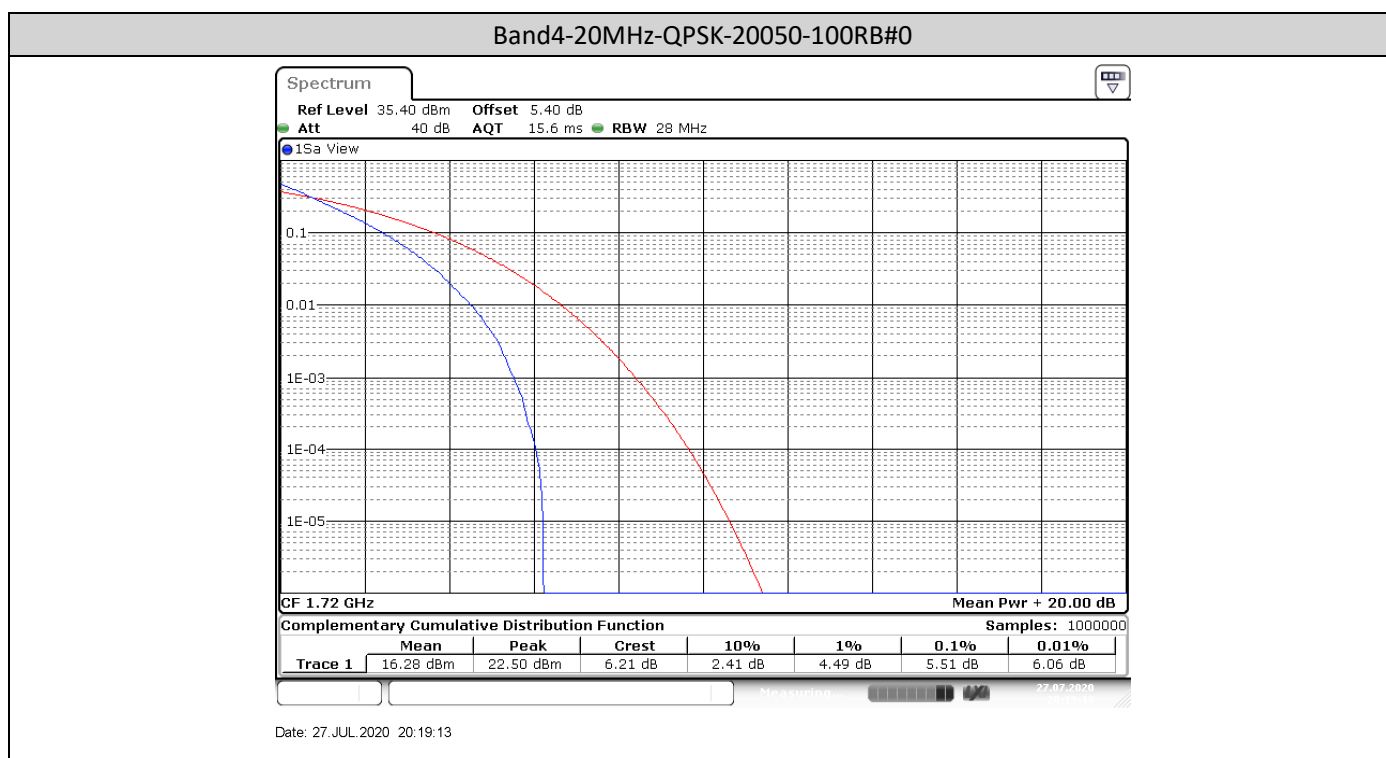


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

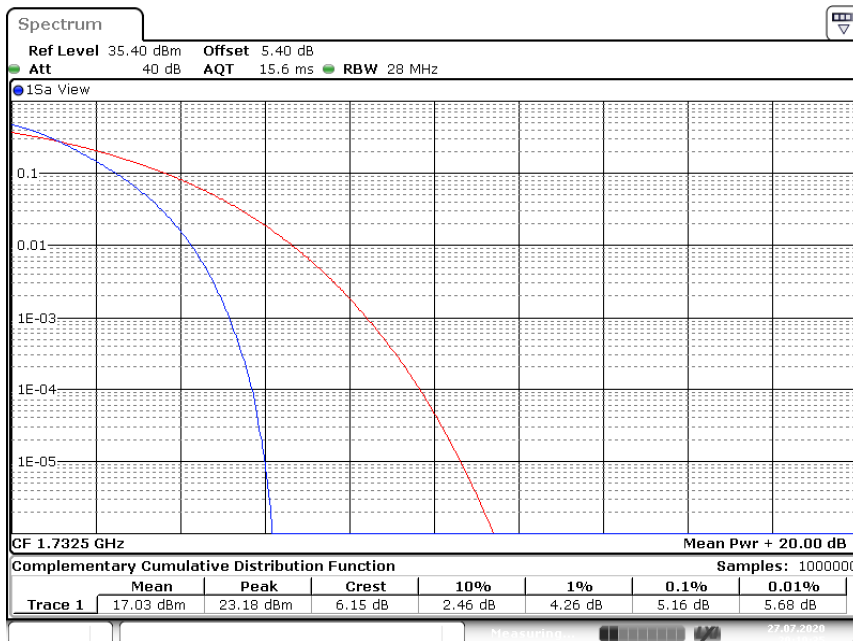
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.51	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.16	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.07	13	PASS
Band4	20MHz	16QAM	20050	32RB#0	5.33	13	PASS
Band4	20MHz	16QAM	20175	32RB#0	6.03	13	PASS
Band4	20MHz	16QAM	20300	32RB#0	5.97	13	PASS

2.2. Test Plots



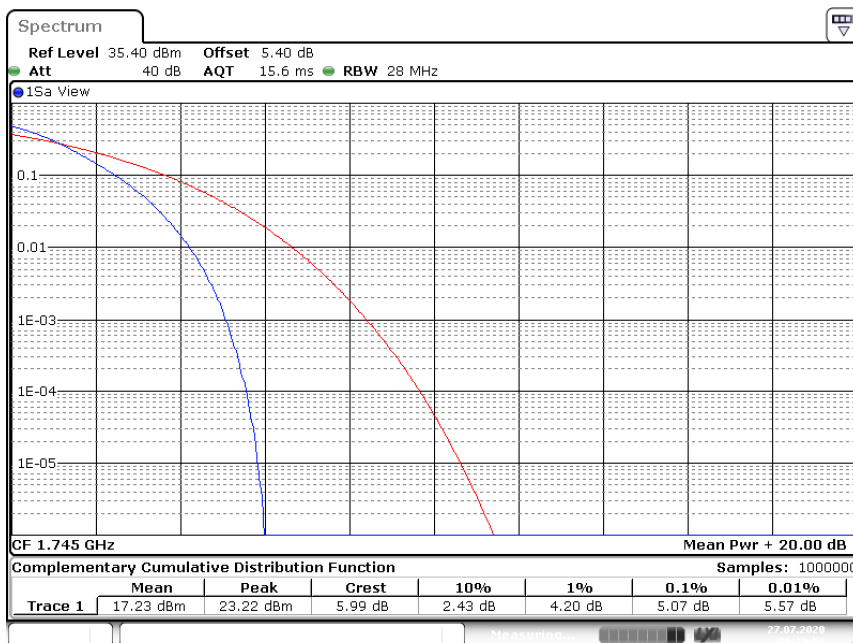


Band4-20MHz-QPSK-20175-100RB#0



Date: 27.JUL.2020 20:19:36

Band4-20MHz-QPSK-20300-100RB#0

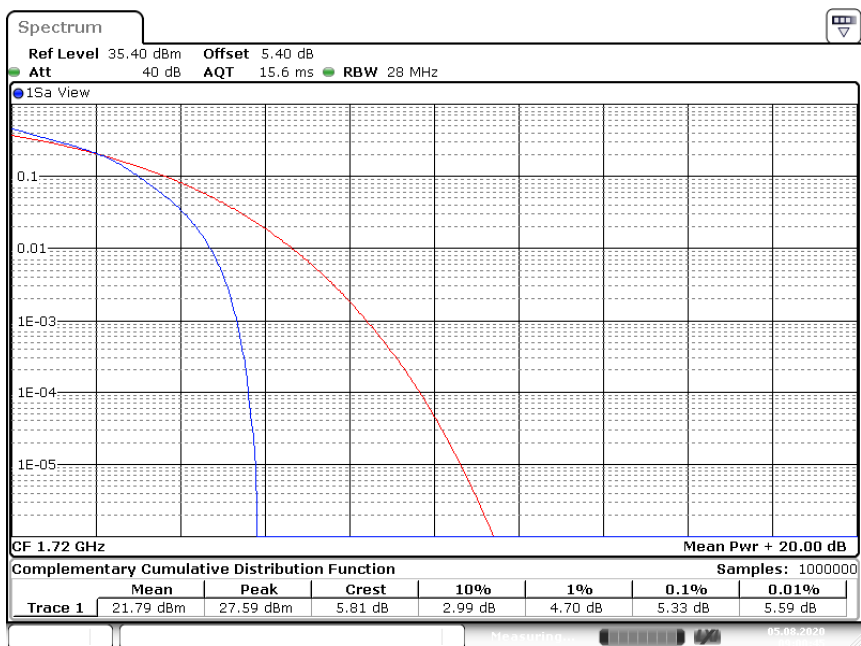


Date: 27.JUL.2020 20:19:58



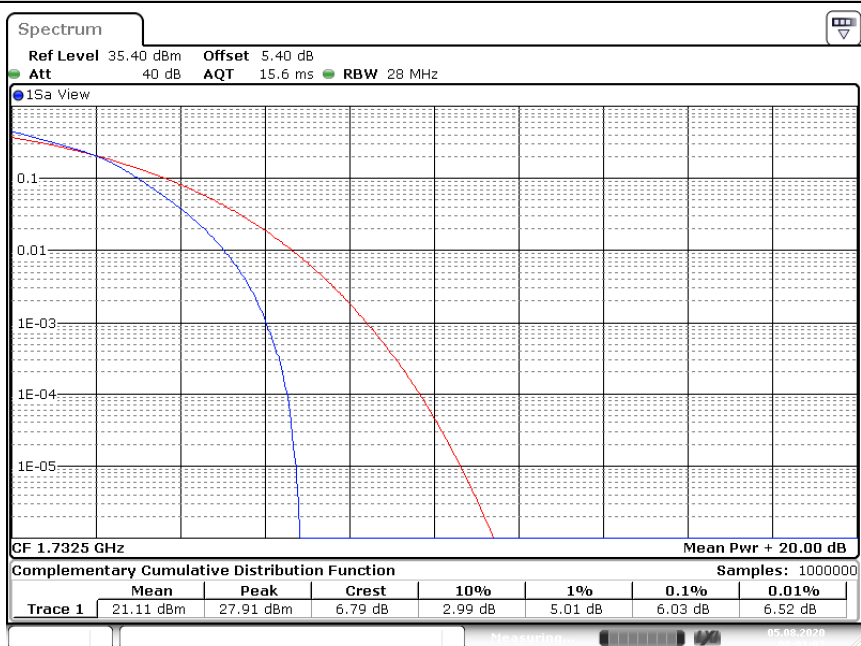


Band4-20MHz-16QAM-20050-32RB#0



Date: 5.AUG.2020 09:00:45

Band4-20MHz-16QAM-20175-32RB#0



Date: 5.AUG.2020 09:01:08



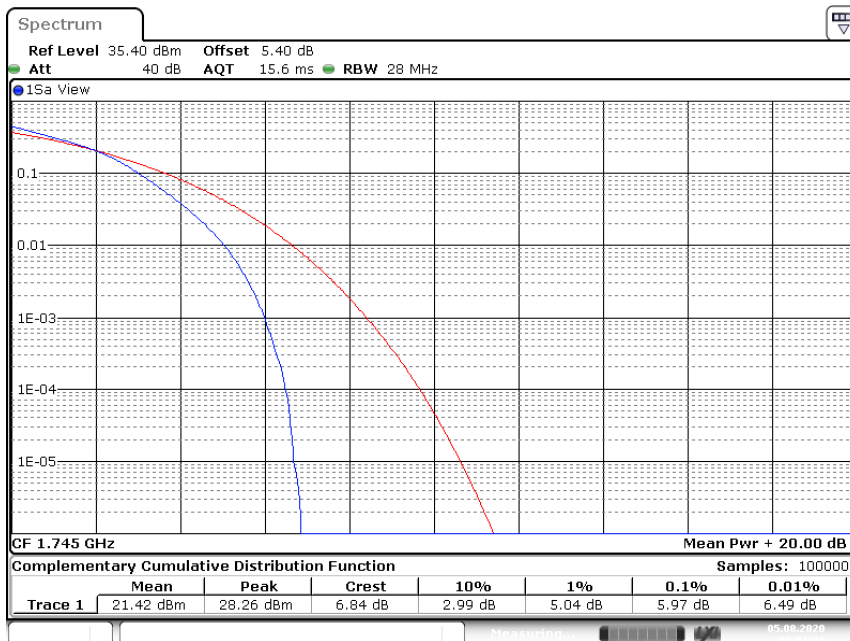
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA, CNAS, ILAC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Band4-20MHz-16QAM-20300-32RB#0



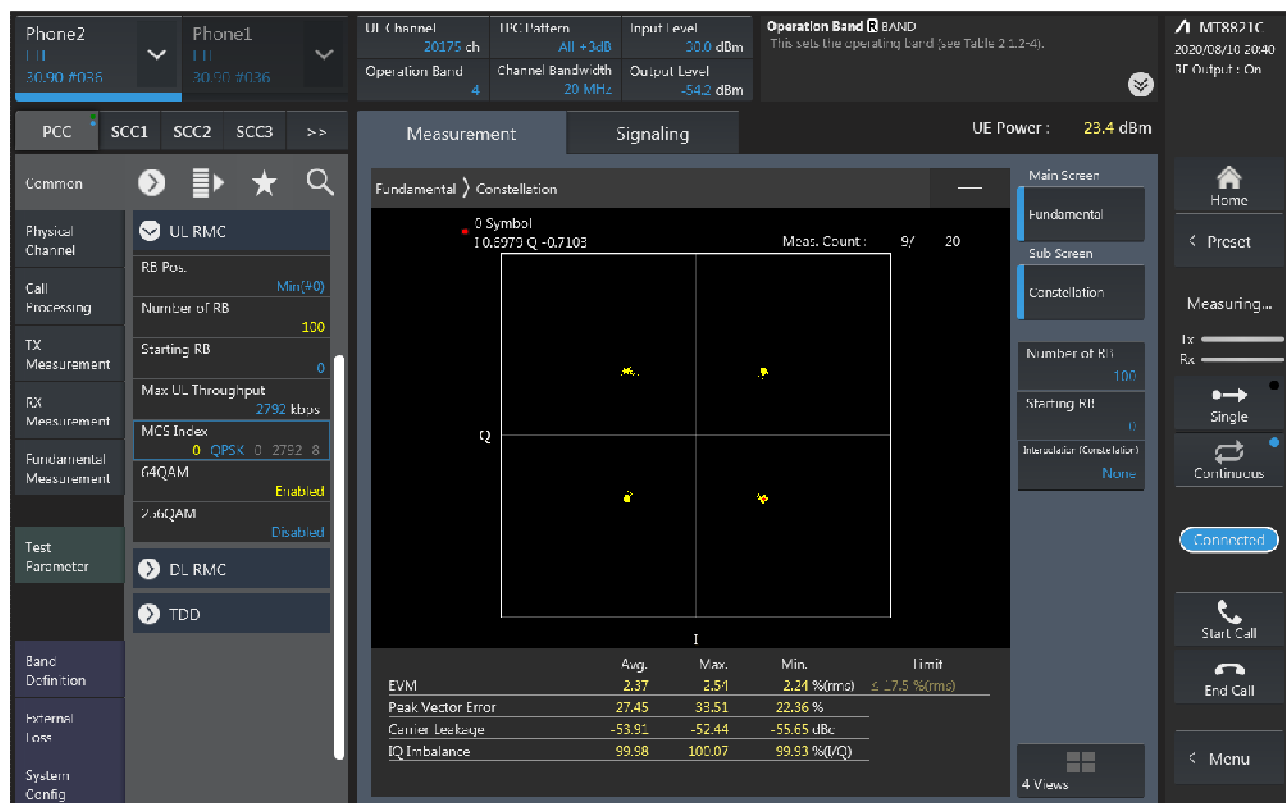
Date: 5.AUG.2020 09:01:30



3. Modulation Characteristics

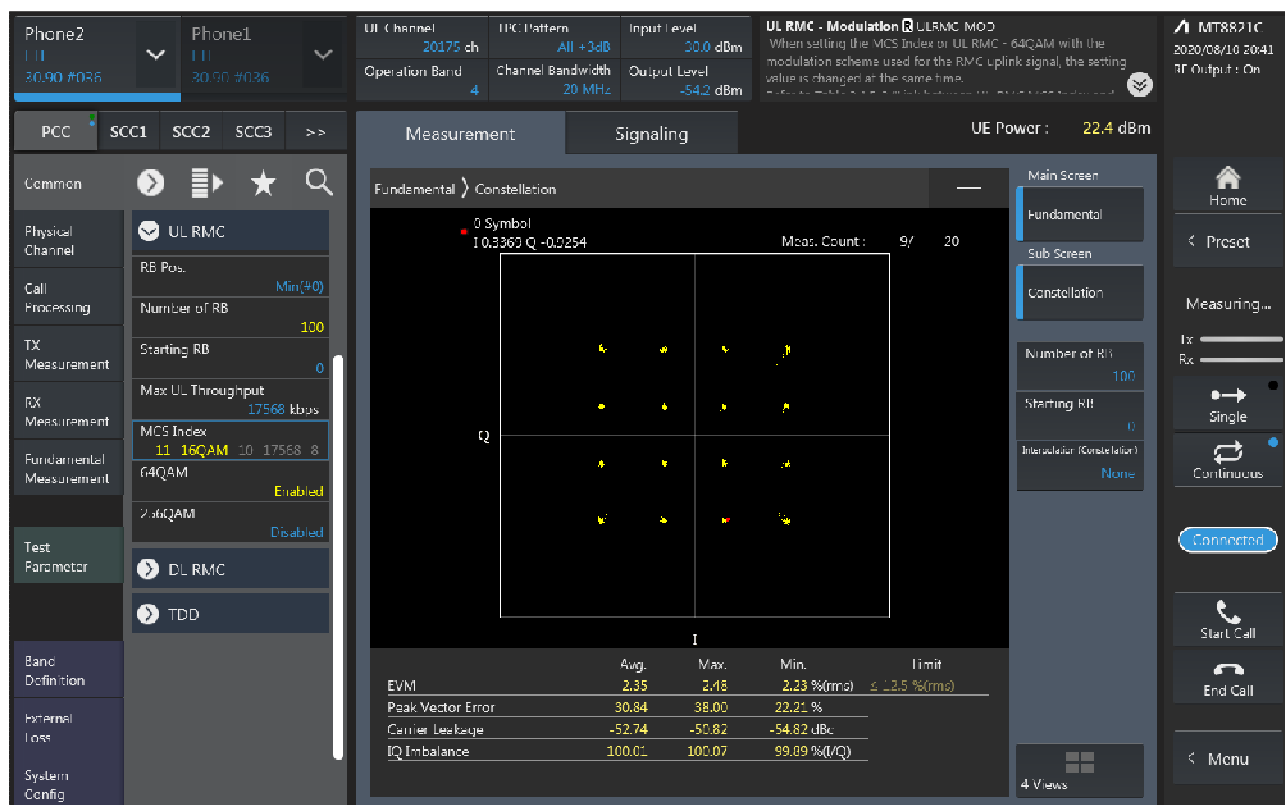
3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.091	1.410	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.422	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.404	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.094	1.485	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.103	1.461	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.097	1.470	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.685	3.204	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	3.210	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.685	3.198	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	3.198	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	3.186	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	3.180	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.446	4.980	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.456	5.010	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.456	5.010	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.446	4.980	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.446	5.010	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.446	5.000	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.891	9.520	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.891	9.540	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.911	9.540	PASS
Band4	10MHz	16QAM	20000	32RB#0	5.794	7.640	PASS
Band4	10MHz	16QAM	20175	32RB#0	5.814	7.920	PASS
Band4	10MHz	16QAM	20350	32RB#0	5.794	7.860	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.516	16.770	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.546	16.740	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.516	16.320	PASS
Band4	15MHz	16QAM	20025	32RB#0	6.893	13.590	PASS
Band4	15MHz	16QAM	20175	32RB#0	6.983	12.270	PASS
Band4	15MHz	16QAM	20325	32RB#0	6.833	11.220	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.942	21.400	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

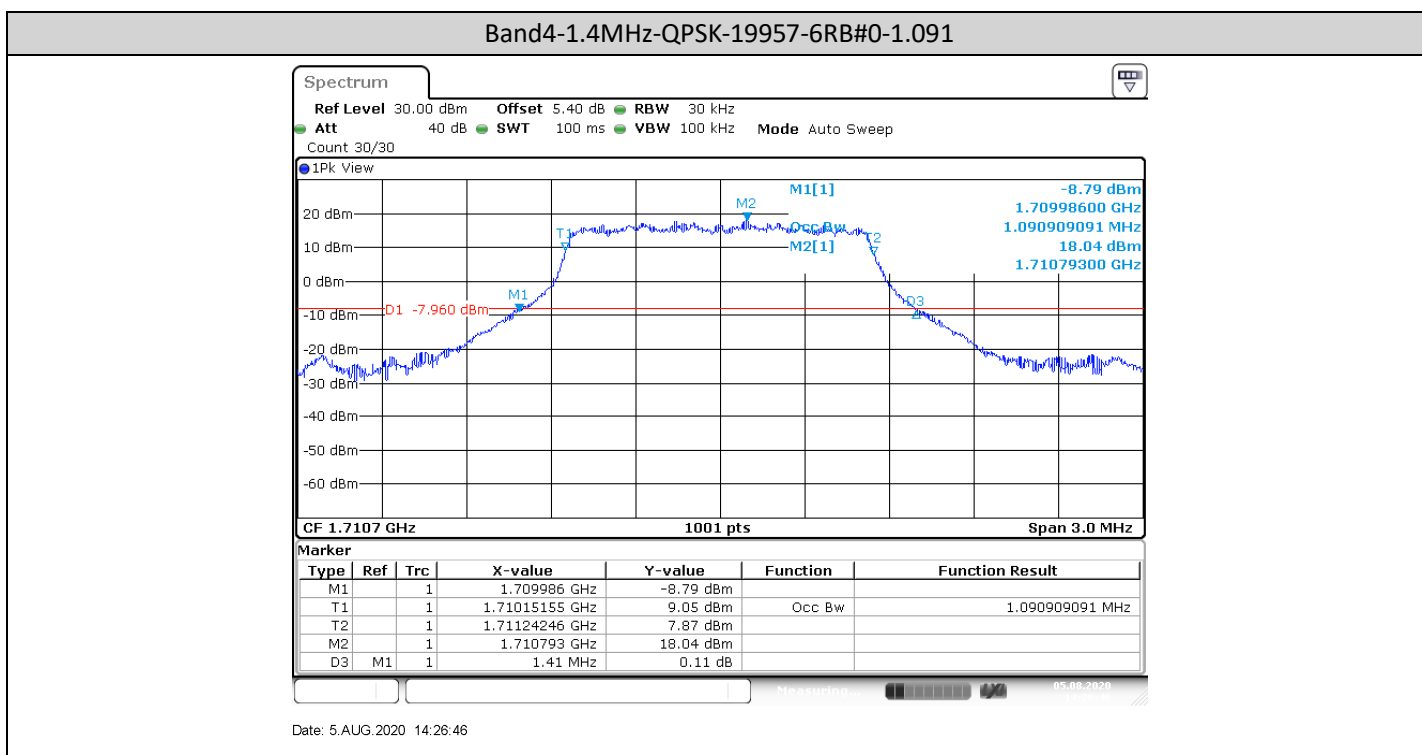
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA) Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



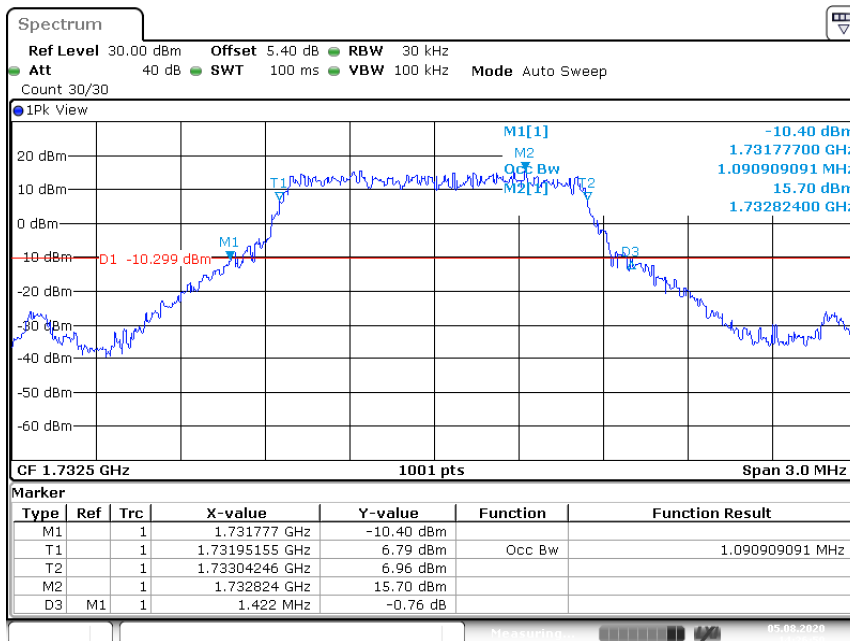
Band4	20MHz	QPSK	20175	100RB#0	17.942	21.320	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.942	21.160	PASS
Band4	20MHz	16QAM	20050	32RB#0	7.512	14.240	PASS
Band4	20MHz	16QAM	20175	32RB#0	8.072	18.280	PASS
Band4	20MHz	16QAM	20300	32RB#0	7.552	11.680	PASS

4.2. Test Plots



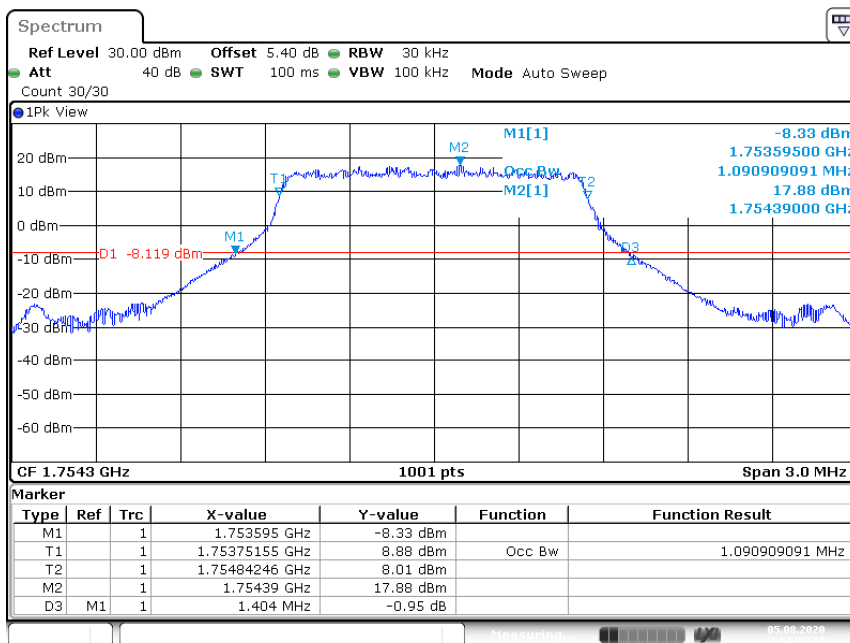


Band4-1.4MHz-QPSK-20175-6RB#0-1.091



Date: 5.AUG.2020 14:26:59

Band4-1.4MHz-QPSK-20393-6RB#0-1.091



Date: 5.AUG.2020 14:27:12



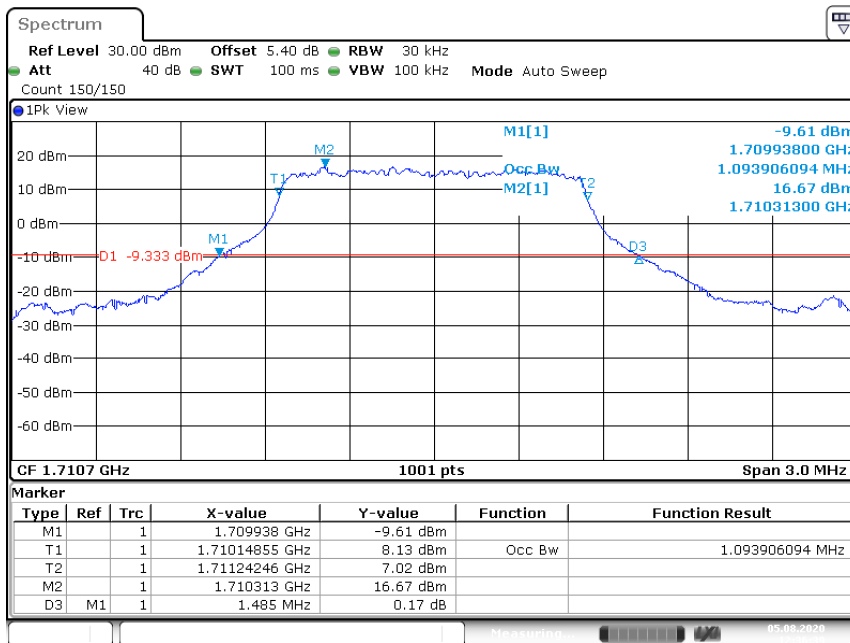
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

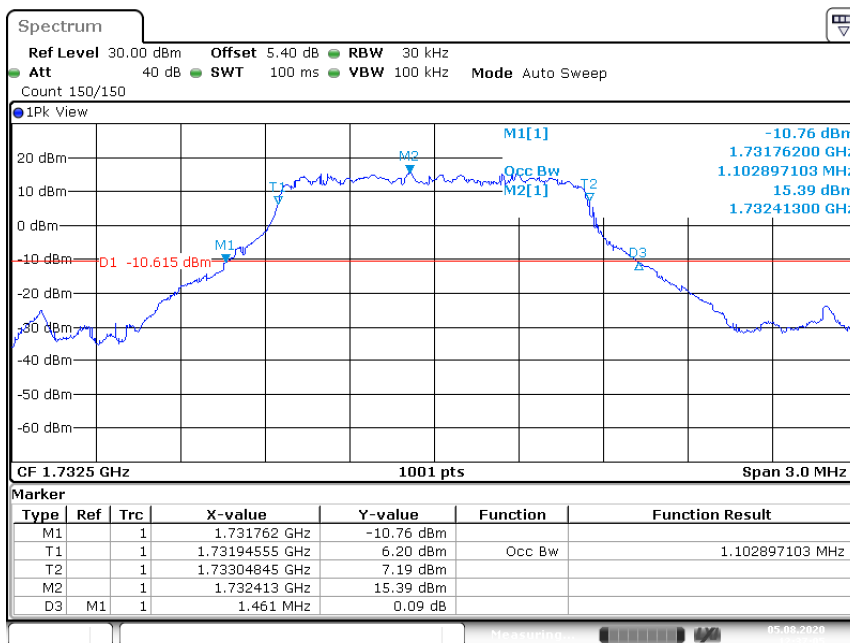


Band4-1.4MHz-16QAM-19957-6RB#0-1.094



Date: 5.AUG.2020 12:36:39

Band4-1.4MHz-16QAM-20175-6RB#0-1.103



Date: 5.AUG.2020 12:37:05



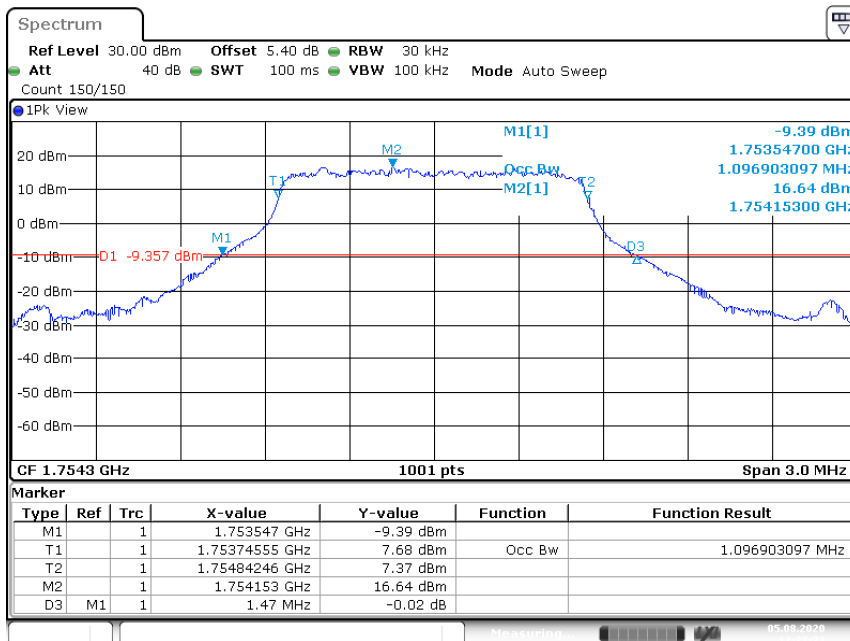
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

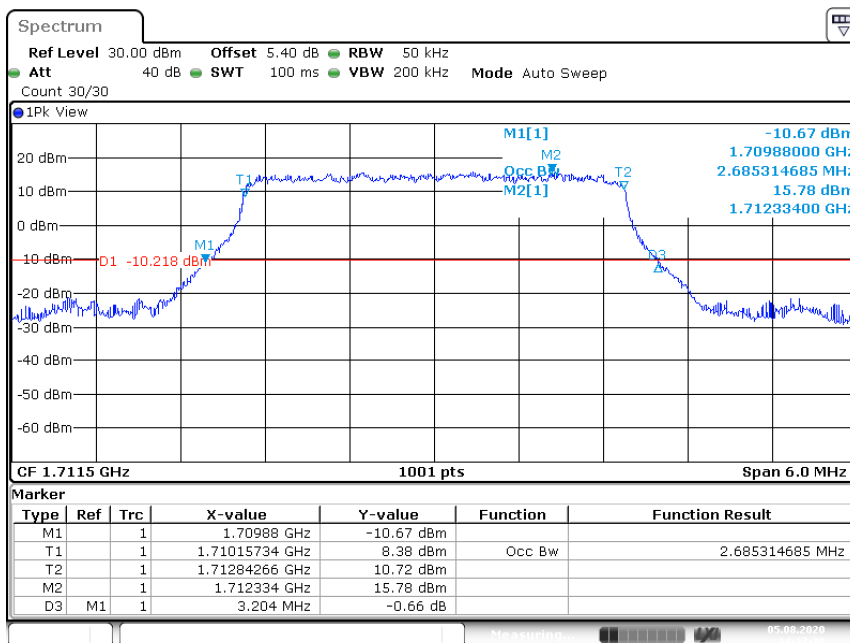


Band4-1.4MHz-16QAM-20393-6RB#0-1.097



Date: 5.AUG.2020 12:37:32

Band4-3MHz-QPSK-19965-15RB#0-2.685



Date: 5.AUG.2020 14:27:30

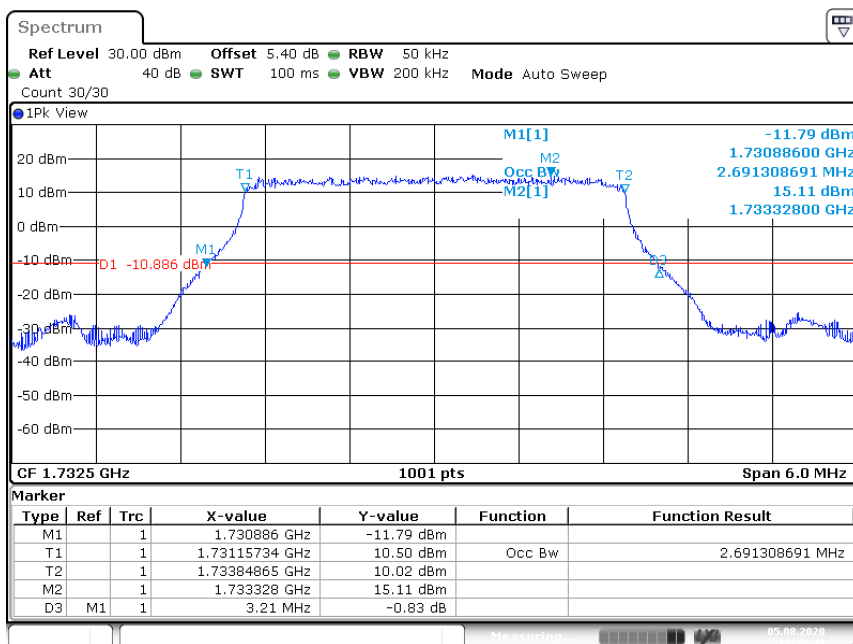


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

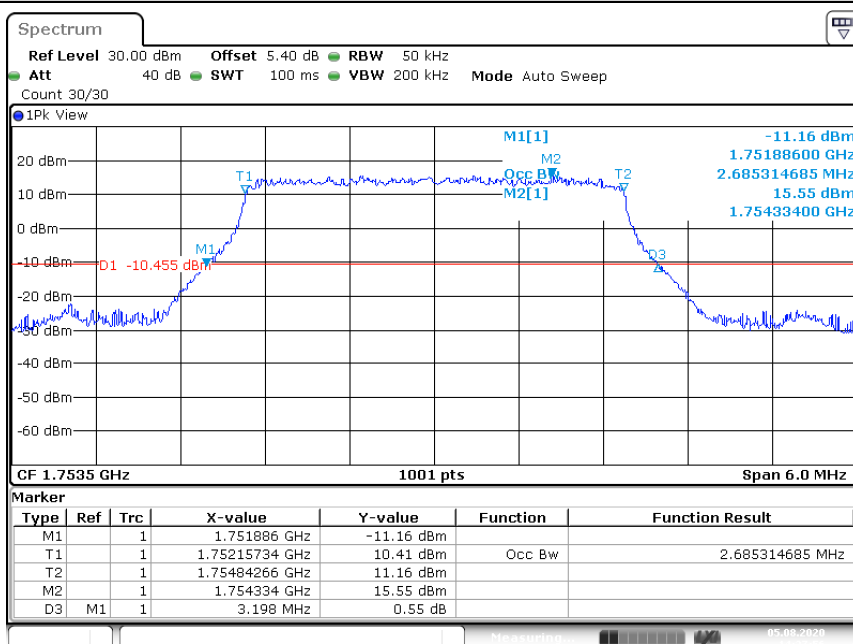
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-3MHz-QPSK-20175-15RB#0-2.691



Date: 5.AUG.2020 14:27:43

Band4-3MHz-QPSK-20385-15RB#0-2.685

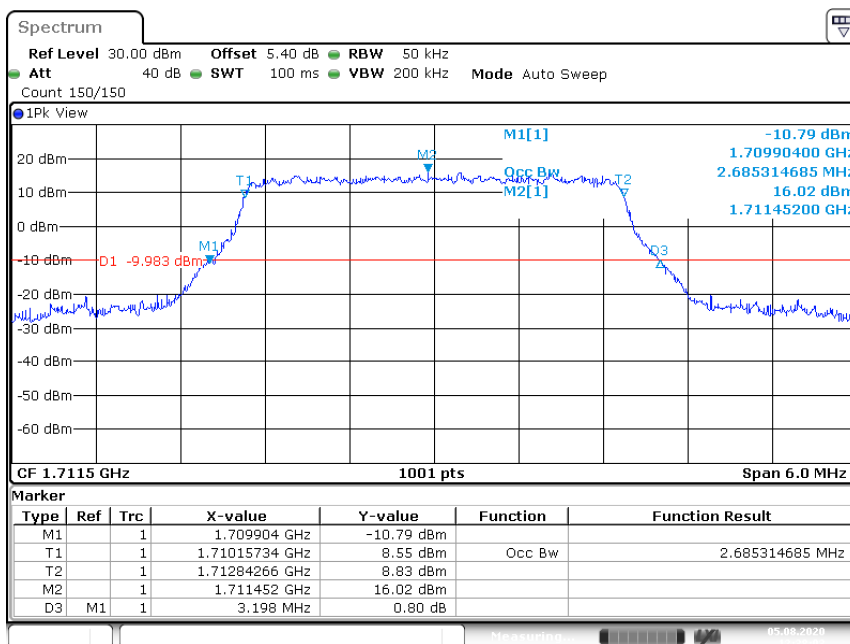


Date: 5.AUG.2020 14:27:56



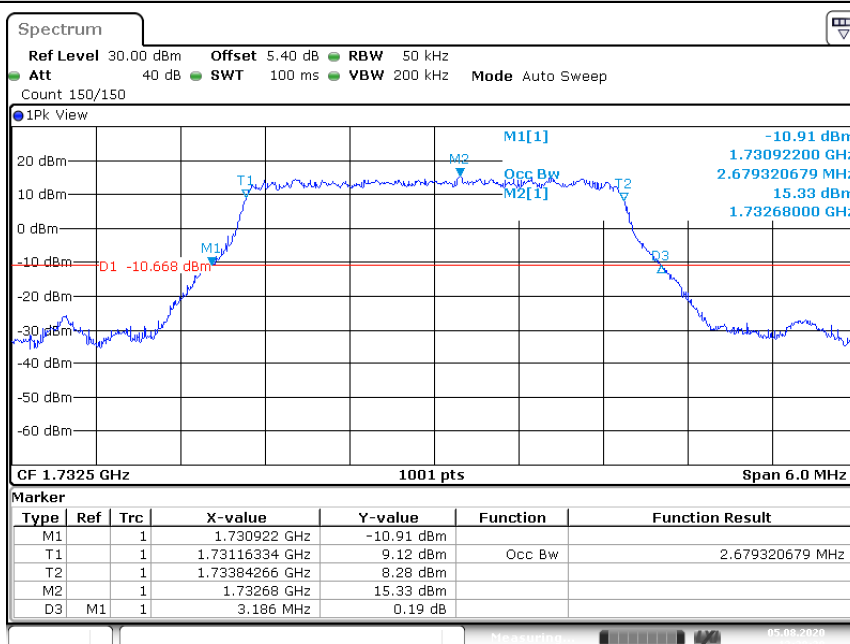


Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 5.AUG.2020 12:38:03

Band4-3MHz-16QAM-20175-15RB#0-2.679



Date: 5.AUG.2020 12:38:29



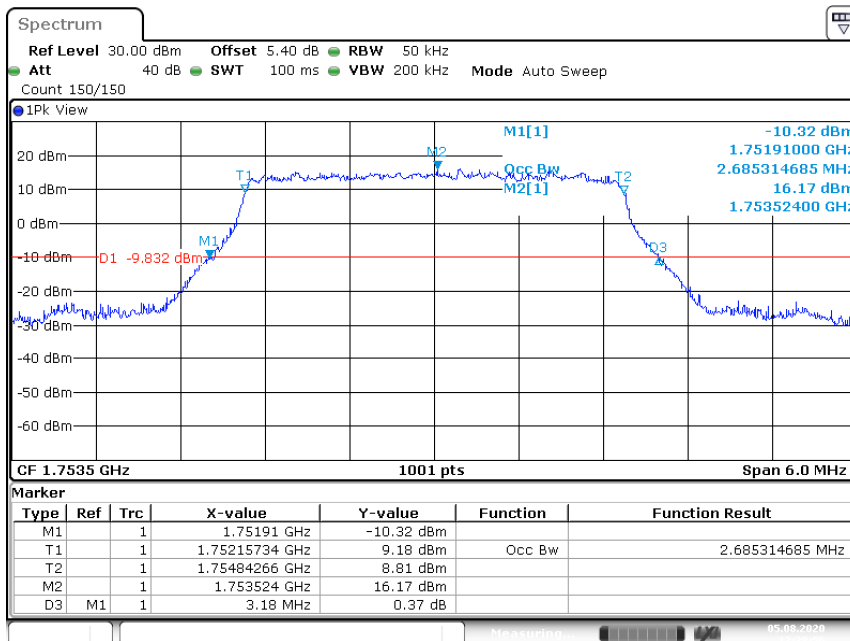
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

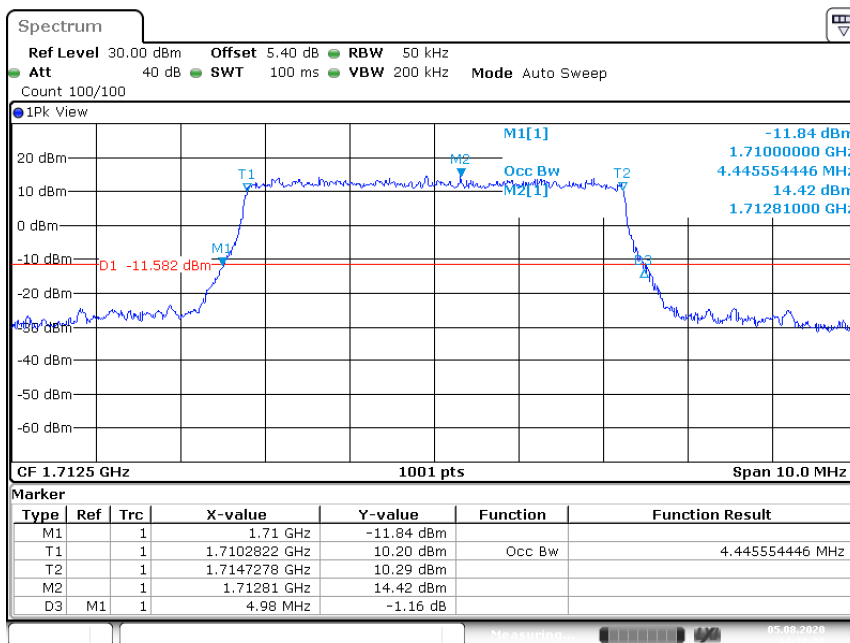


Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 5.AUG.2020 12:38:56

Band4-5MHz-QPSK-19975-25RB#0-4.446



Date: 5.AUG.2020 14:28:21



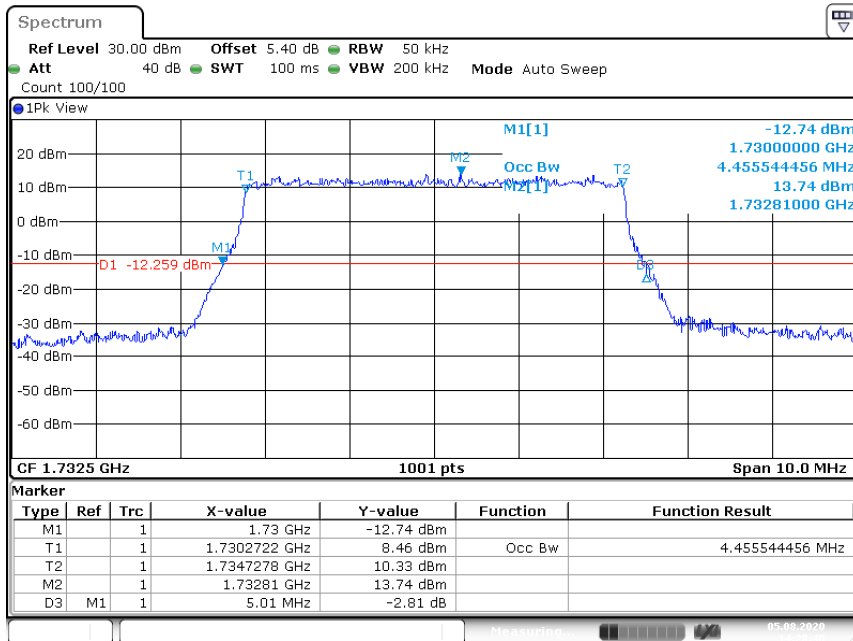
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

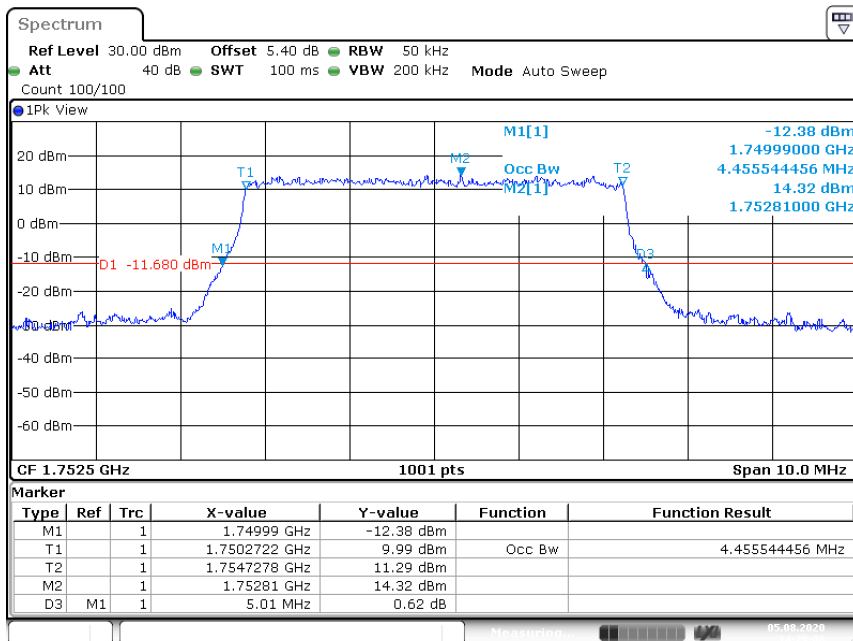


Band4-5MHz-QPSK-20175-25RB#0-4.456



Date: 5.AUG.2020 14:28:41

Band4-5MHz-QPSK-20375-25RB#0-4.456



Date: 5.AUG.2020 14:29:01



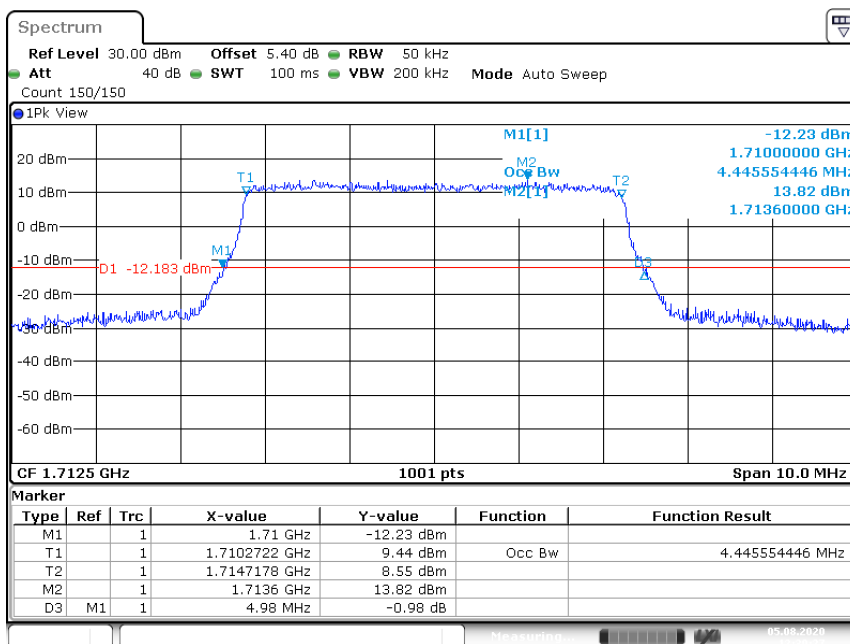
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA, CNAS, ILAC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

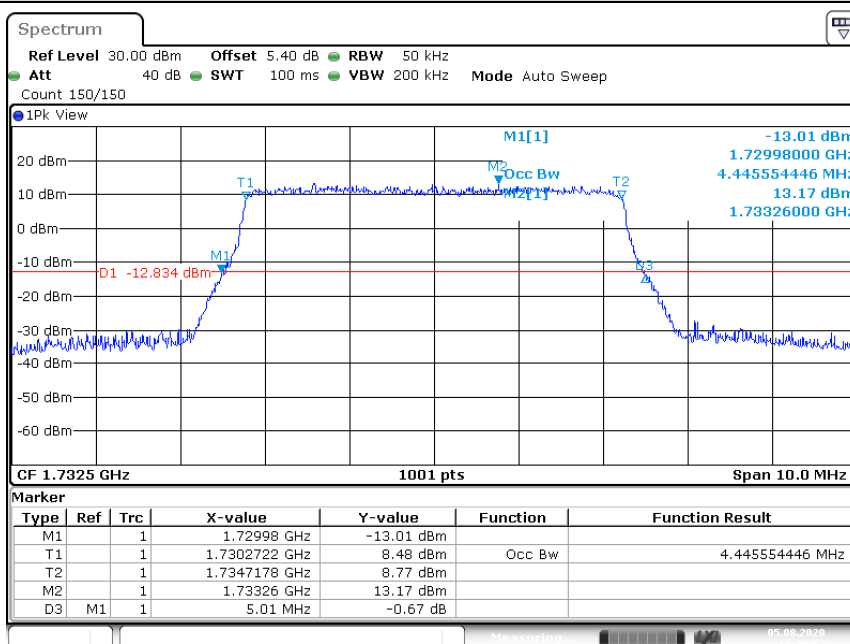


Band4-5MHz-16QAM-19975-25RB#0-4.446



Date: 5.AUG.2020 12:39:27

Band4-5MHz-16QAM-20175-25RB#0-4.446



Date: 5.AUG.2020 12:39:53



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

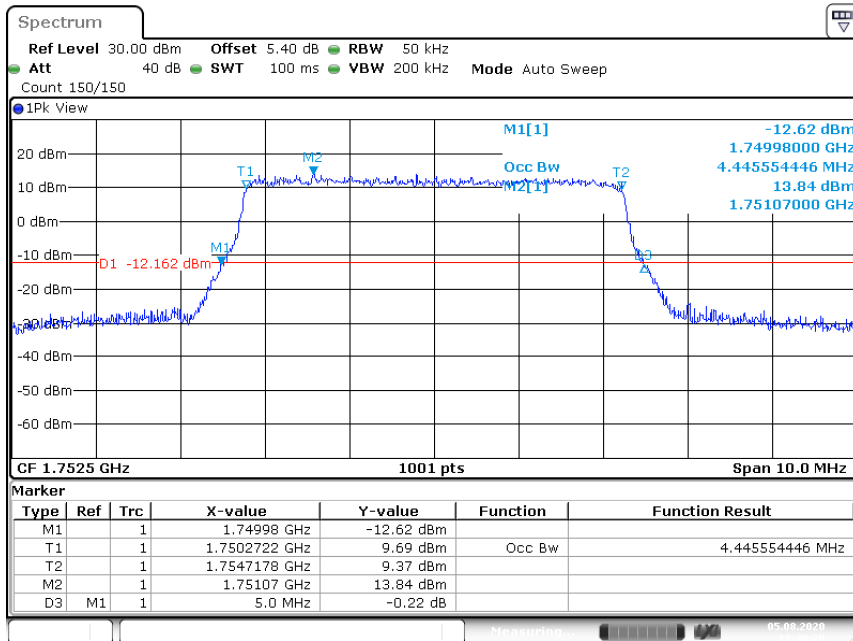
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

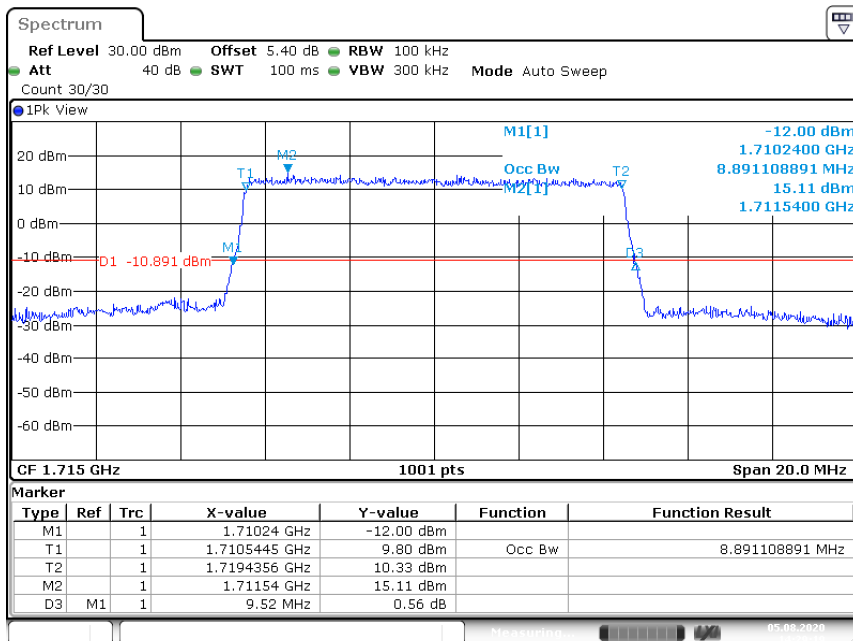


Band4-5MHz-16QAM-20375-25RB#0-4.446



Date: 5.AUG.2020 12:40:20

Band4-10MHz-QPSK-20000-50RB#0-8.891

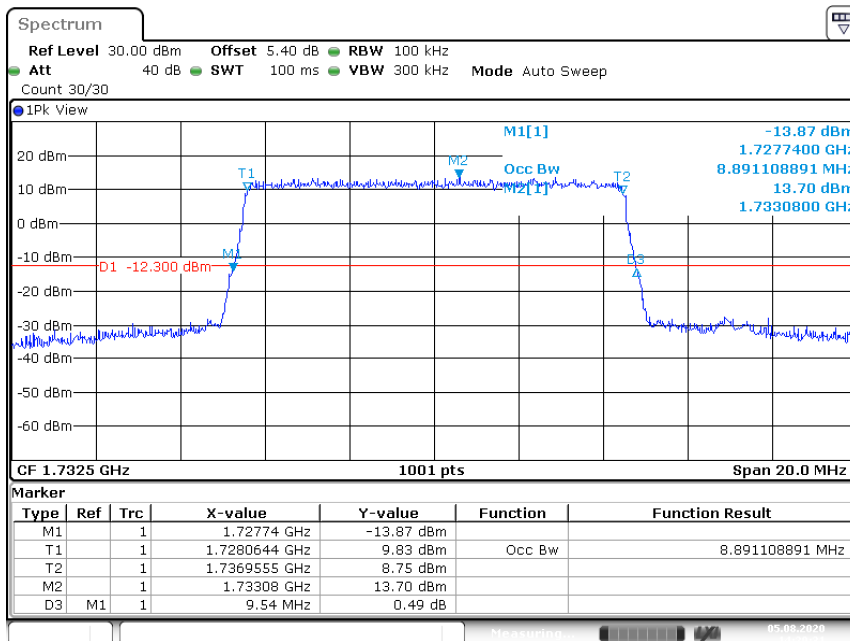


Date: 5.AUG.2020 14:29:19



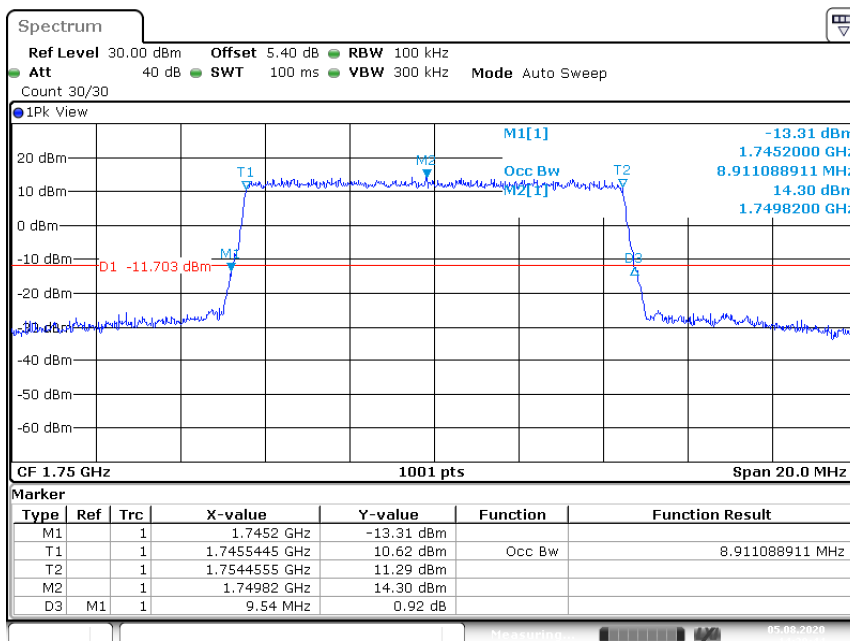


Band4-10MHz-QPSK-20175-50RB#0-8.891



Date: 5.AUG.2020 14:29:32

Band4-10MHz-QPSK-20350-50RB#0-8.911



Date: 5.AUG.2020 14:29:45



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

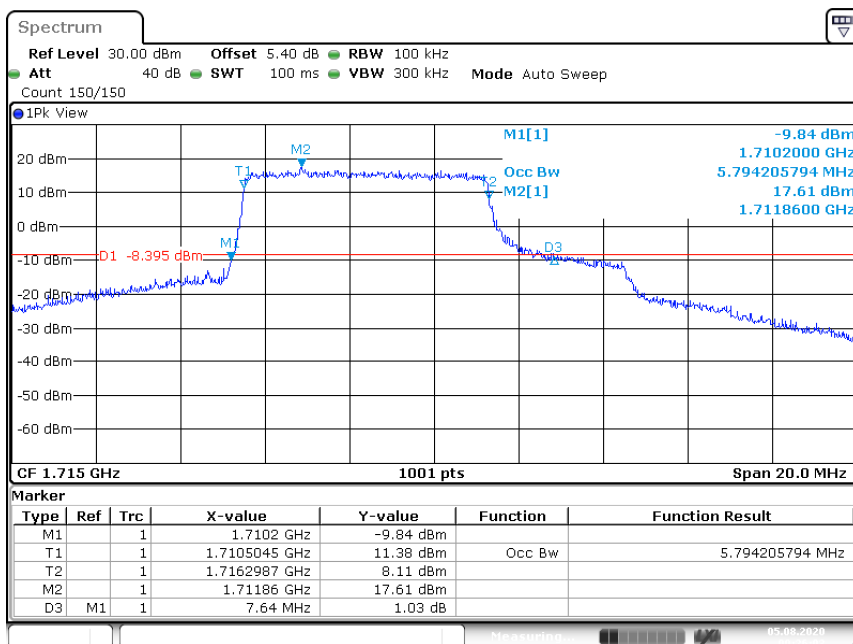
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

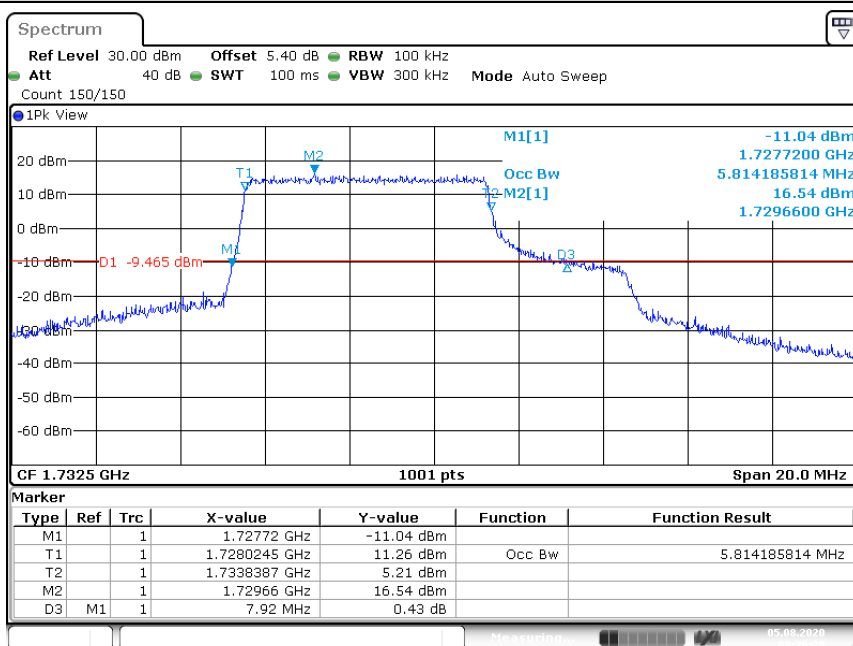


Band4-10MHz-16QAM-20000-32RB#0-5.794



Date: 5.AUG.2020 09:26:03

Band4-10MHz-16QAM-20175-32RB#0-5.814



Date: 5.AUG.2020 09:26:29



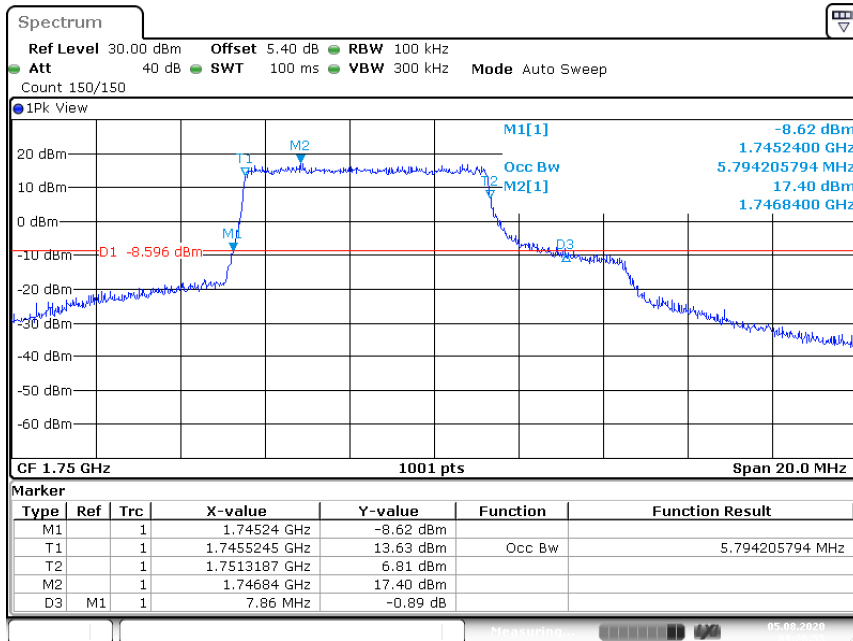
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCIC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

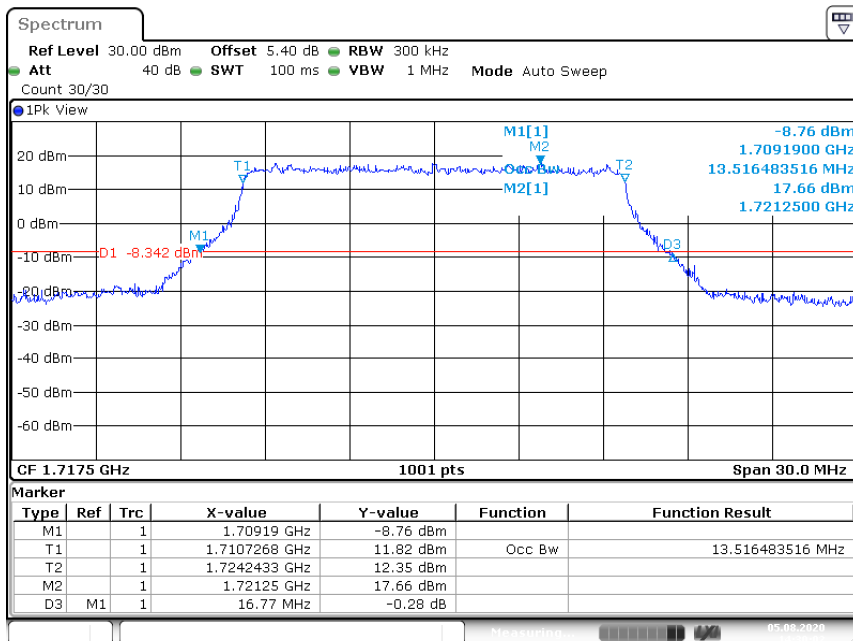


Band4-10MHz-16QAM-20350-32RB#0-5.794



Date: 5.AUG.2020 09:26:56

Band4-15MHz-QPSK-20025-75RB#0-13.516



Date: 5.AUG.2020 14:30:02



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

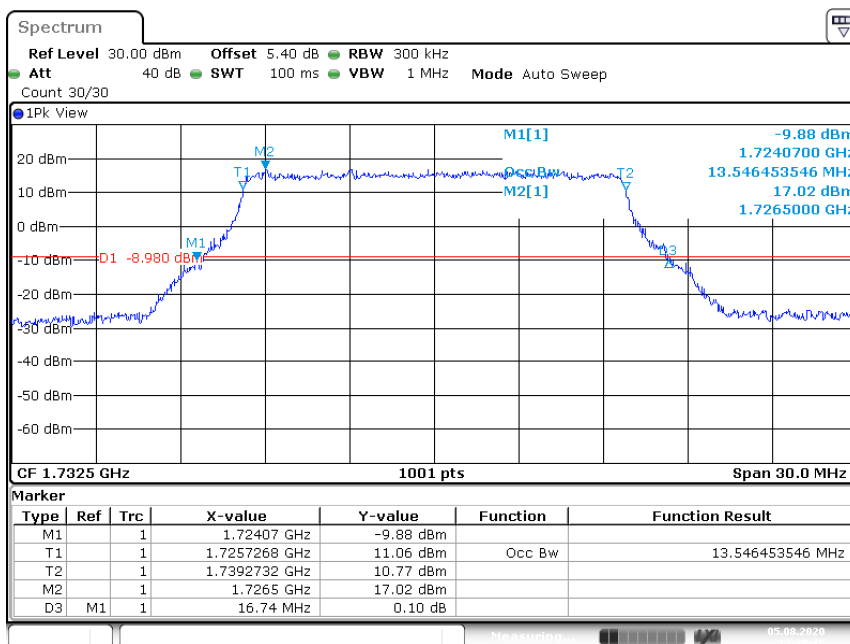
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

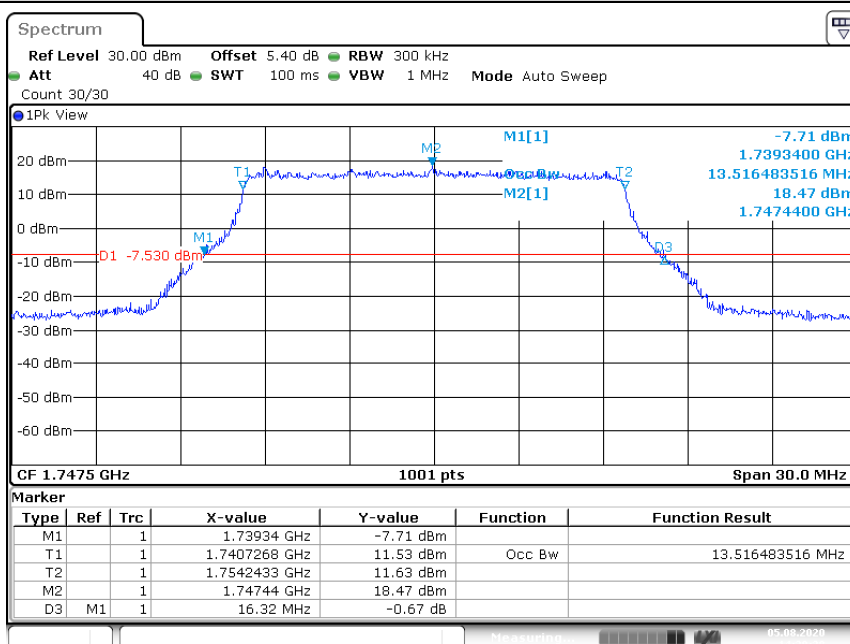


Band4-15MHz-QPSK-20175-75RB#0-13.546



Date: 5.AUG.2020 14:30:15

Band4-15MHz-QPSK-20325-75RB#0-13.516



Date: 5.AUG.2020 14:30:28



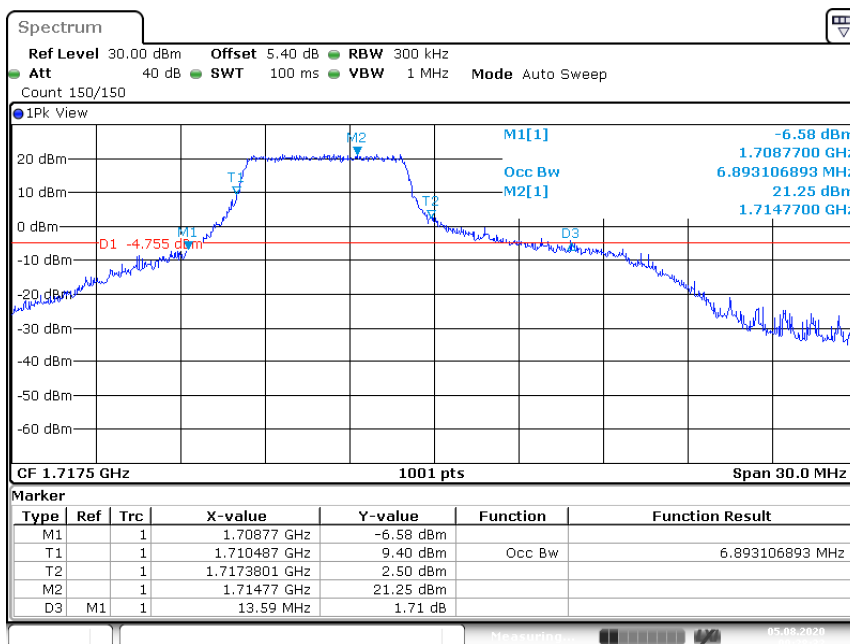
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

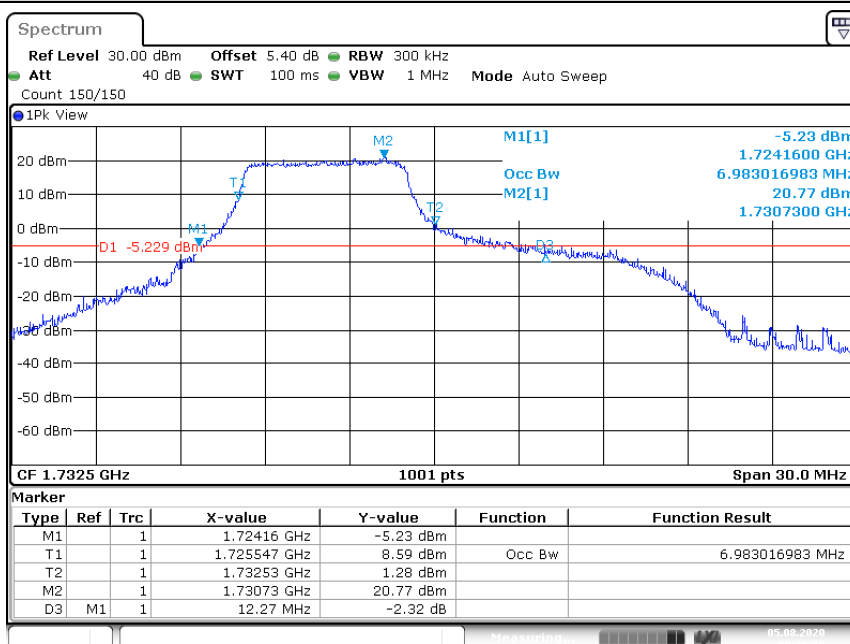


Band4-15MHz-16QAM-20025-32RB#0-6.893



Date: 5.AUG.2020 09:28:32

Band4-15MHz-16QAM-20175-32RB#0-6.983



Date: 5.AUG.2020 09:28:58



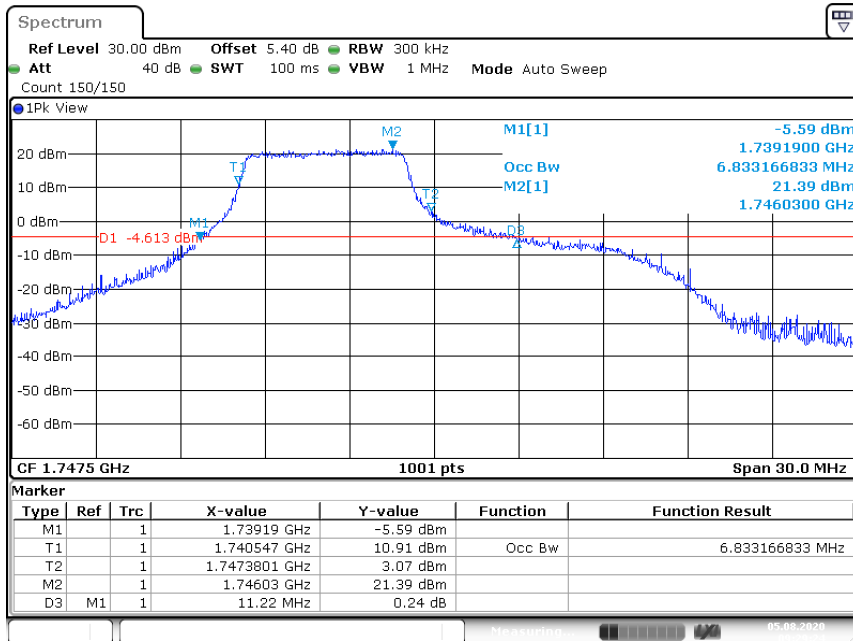
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

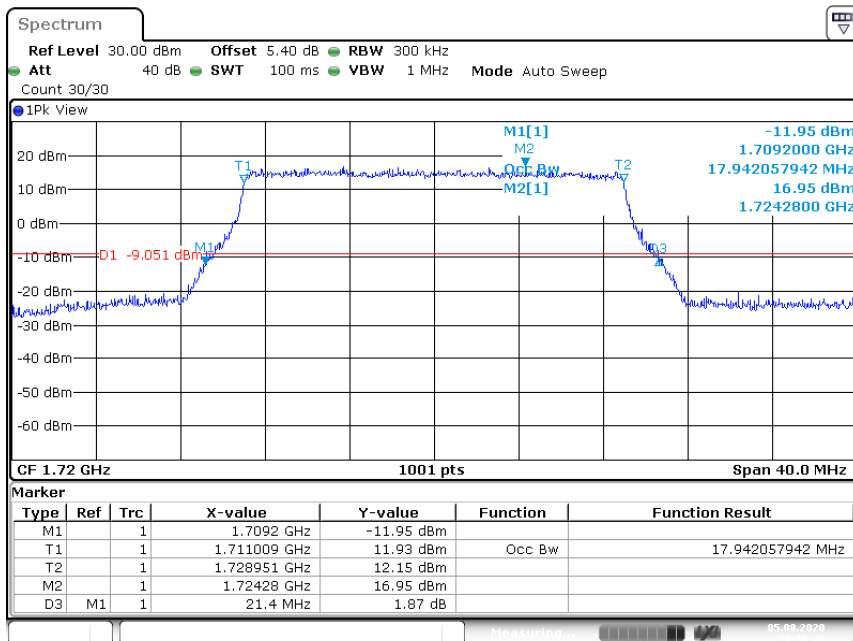


Band4-15MHz-16QAM-20325-32RB#0-6.833



Date: 5.AUG.2020 09:29:25

Band4-20MHz-QPSK-20050-100RB#0-17.942



Date: 5.AUG.2020 14:30:46



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

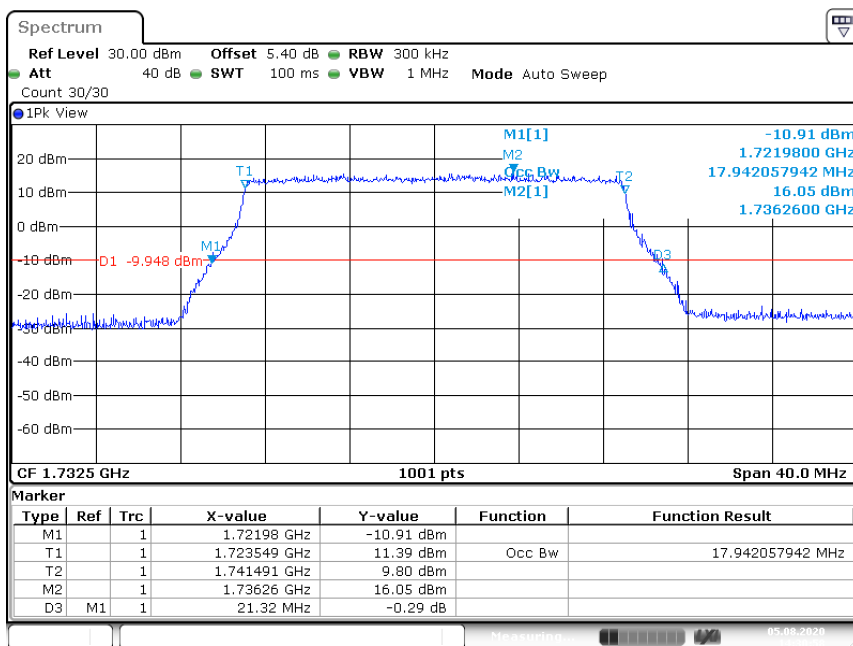
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

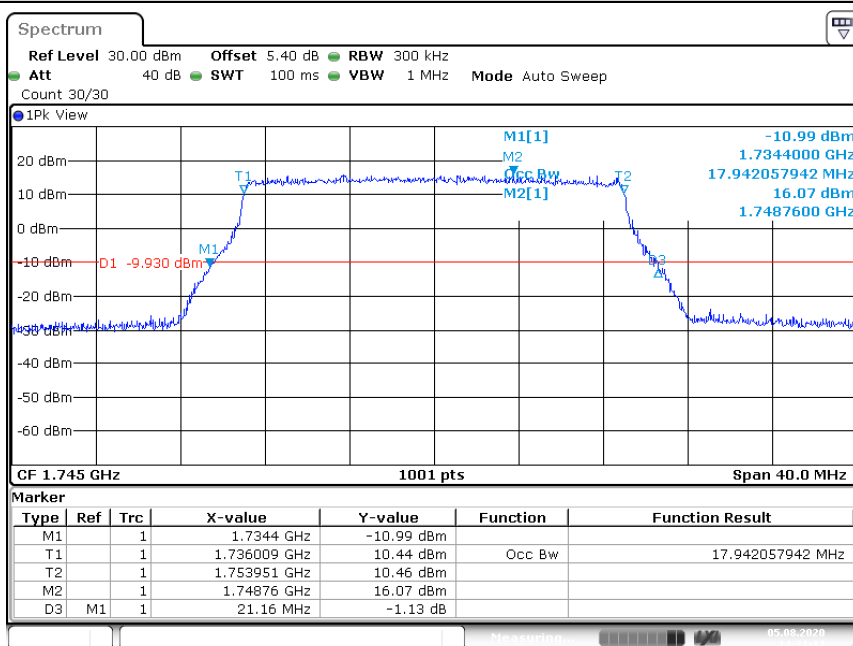


Band4-20MHz-QPSK-20175-100RB#0-17.942



Date: 5.AUG.2020 14:30:59

Band4-20MHz-QPSK-20300-100RB#0-17.942



Date: 5.AUG.2020 14:31:12



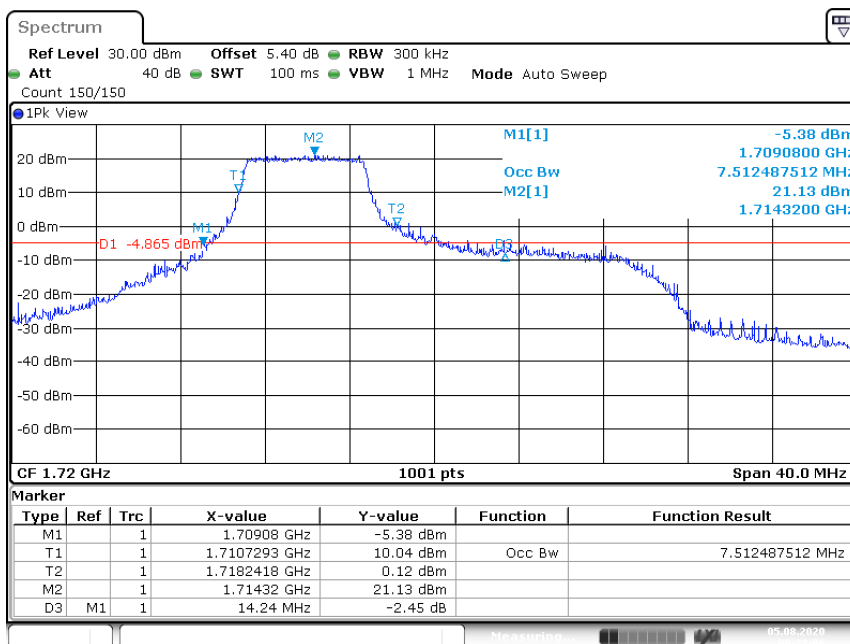
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

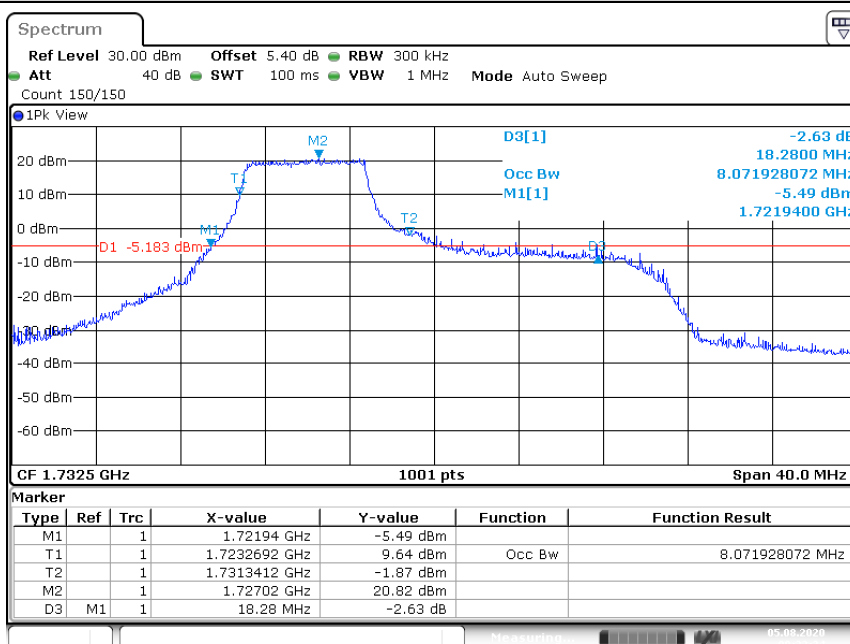


Band4-20MHz-16QAM-20050-32RB#0-7.512



Date: 5.AUG.2020 09:32:06

Band4-20MHz-16QAM-20175-32RB#0-8.072



Date: 5.AUG.2020 09:33:34



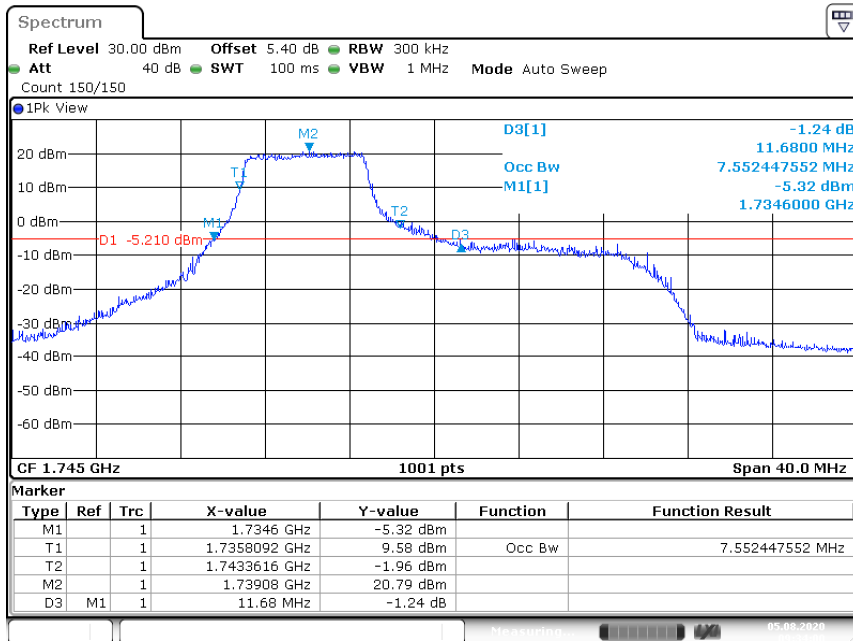
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4-20MHz-16QAM-20300-32RB#0-7.552



Date: 5.AUG.2020 09:34:01





5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-16.75	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-22.99	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-16.29	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-24.29	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-14.66	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-19.82	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-13.19	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-20.76	PASS
Band4	3MHz	QPSK	19965	1RB#0	-15.67	PASS
Band4	3MHz	QPSK	19965	15RB#0	-26.55	PASS
Band4	3MHz	QPSK	20385	1RB#14	-16.34	PASS
Band4	3MHz	QPSK	20385	15RB#0	-26.87	PASS
Band4	3MHz	16QAM	19965	1RB#0	-15.59	PASS
Band4	3MHz	16QAM	19965	15RB#0	-24.73	PASS
Band4	3MHz	16QAM	20385	1RB#14	-13.01	PASS
Band4	3MHz	16QAM	20385	15RB#0	-24.05	PASS
Band4	5MHz	QPSK	19975	1RB#0	-15.60	PASS
Band4	5MHz	QPSK	19975	25RB#0	-27.36	PASS
Band4	5MHz	QPSK	20375	1RB#24	-15.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	-27.76	PASS
Band4	5MHz	16QAM	19975	1RB#0	-16.63	PASS
Band4	5MHz	16QAM	19975	25RB#0	-28.30	PASS
Band4	5MHz	16QAM	20375	1RB#24	-15.32	PASS
Band4	5MHz	16QAM	20375	25RB#0	-28.70	PASS
Band4	10MHz	QPSK	20000	1RB#0	-29.26	PASS
Band4	10MHz	QPSK	20000	50RB#0	-34.93	PASS
Band4	10MHz	QPSK	20350	1RB#49	-28.09	PASS
Band4	10MHz	QPSK	20350	50RB#0	-36.40	PASS
Band4	10MHz	16QAM	20000	1RB#0	-28.82	PASS
Band4	10MHz	16QAM	20000	32RB#0	-28.89	PASS
Band4	10MHz	16QAM	20000	50RB#0	-42.11	PASS
Band4	10MHz	16QAM	20350	1RB#49	-28.36	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	10MHz	16QAM	20350	32RB#18	-32.71	PASS
Band4	10MHz	16QAM	20350	50RB#0	-37.52	PASS
Band4	15MHz	QPSK	20025	1RB#0	-24.76	PASS
Band4	15MHz	QPSK	20025	75RB#0	-29.53	PASS
Band4	15MHz	QPSK	20325	1RB#74	-24.10	PASS
Band4	15MHz	QPSK	20325	75RB#0	-26.68	PASS
Band4	15MHz	16QAM	20025	1RB#0	-14.79	PASS
Band4	15MHz	16QAM	20025	32RB#0	-20.67	PASS
Band4	15MHz	16QAM	20025	75RB#0	-24.39	PASS
Band4	15MHz	16QAM	20325	1RB#74	-22.92	PASS
Band4	15MHz	16QAM	20325	32RB#43	-23.14	PASS
Band4	15MHz	16QAM	20325	75RB#0	-24.06	PASS
Band4	20MHz	QPSK	20050	1RB#0	-14.65	PASS
Band4	20MHz	QPSK	20050	100RB#0	-25.81	PASS
Band4	20MHz	QPSK	20300	1RB#99	-26.46	PASS
Band4	20MHz	QPSK	20300	100RB#0	-33.05	PASS
Band4	20MHz	16QAM	20050	1RB#0	-14.75	PASS
Band4	20MHz	16QAM	20050	32RB#0	-21.10	PASS
Band4	20MHz	16QAM	20050	100RB#0	-25.73	PASS
Band4	20MHz	16QAM	20300	1RB#99	-13.89	PASS
Band4	20MHz	16QAM	20300	32RB#68	-23.68	PASS
Band4	20MHz	16QAM	20300	100RB#0	-24.61	PASS

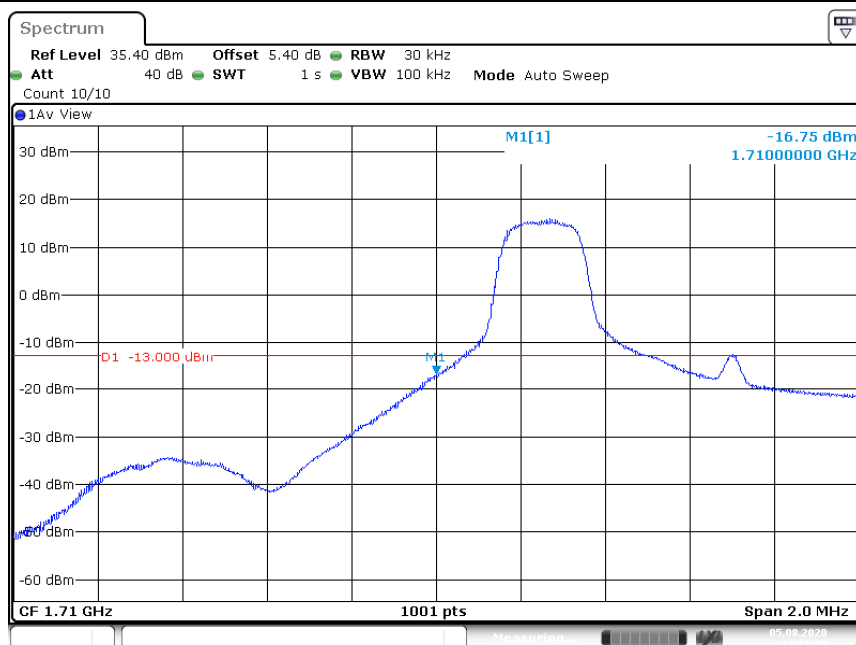


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

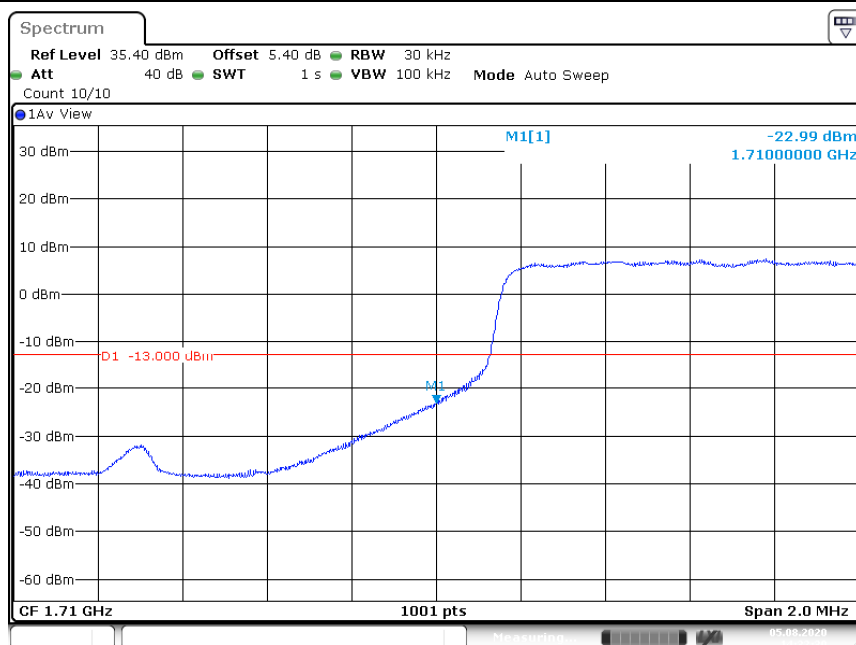
5.2. Test Plots

Band4-1.4MHz-QPSK-19957-1RB#0



Date: 5.AUG.2020 14:32:10

Band4-1.4MHz-QPSK-19957-6RB#0



Date: 5.AUG.2020 14:32:31



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

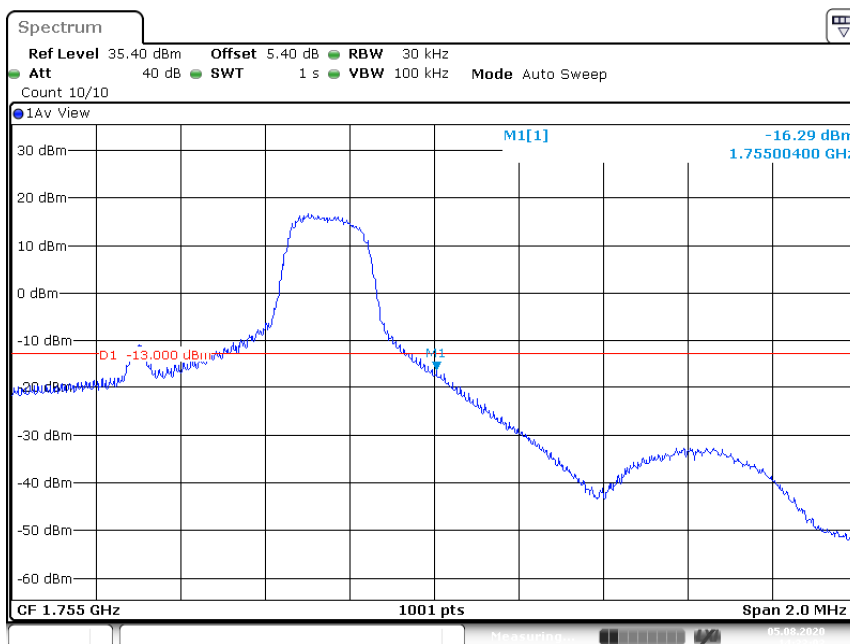
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Band4-1.4MHz-QPSK-20393-1RB#5



Date: 5.AUG.2020 14:33:03

Band4-1.4MHz-QPSK-20393-6RB#0

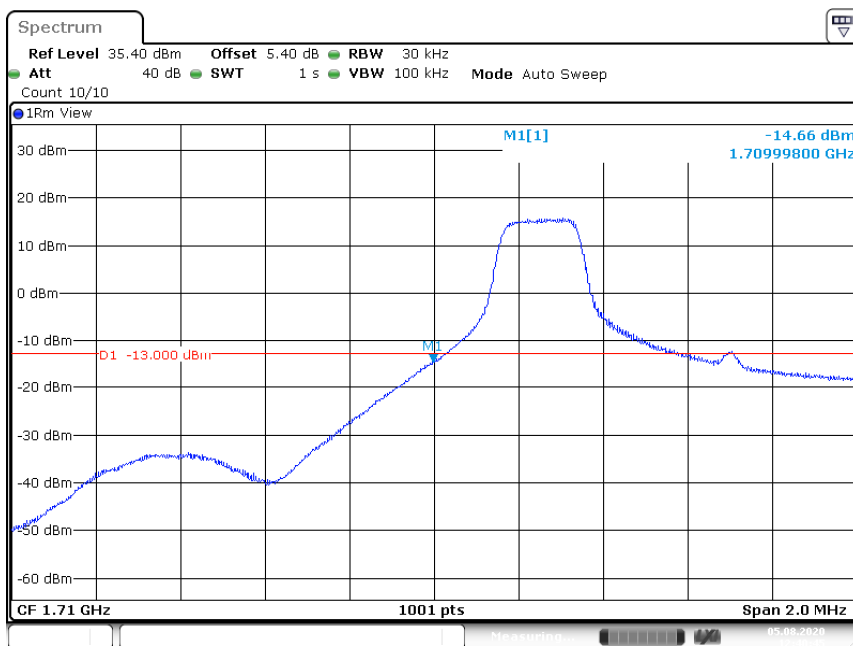


Date: 5.AUG.2020 14:33:23



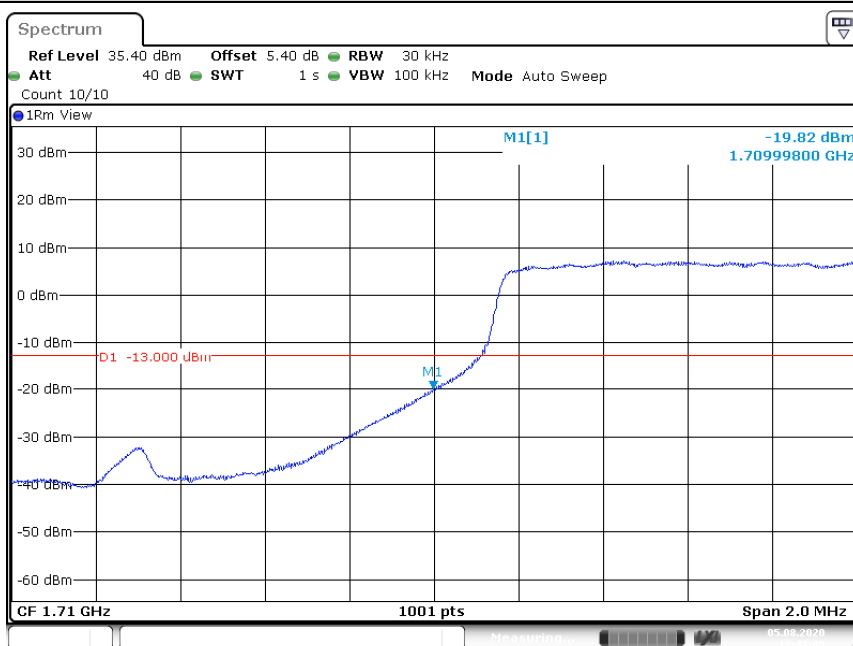


Band4-1.4MHz-16QAM-19957-1RB#0



Date: 5.AUG.2020 12:40:46

Band4-1.4MHz-16QAM-19957-6RB#0



Date: 5.AUG.2020 12:41:06



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

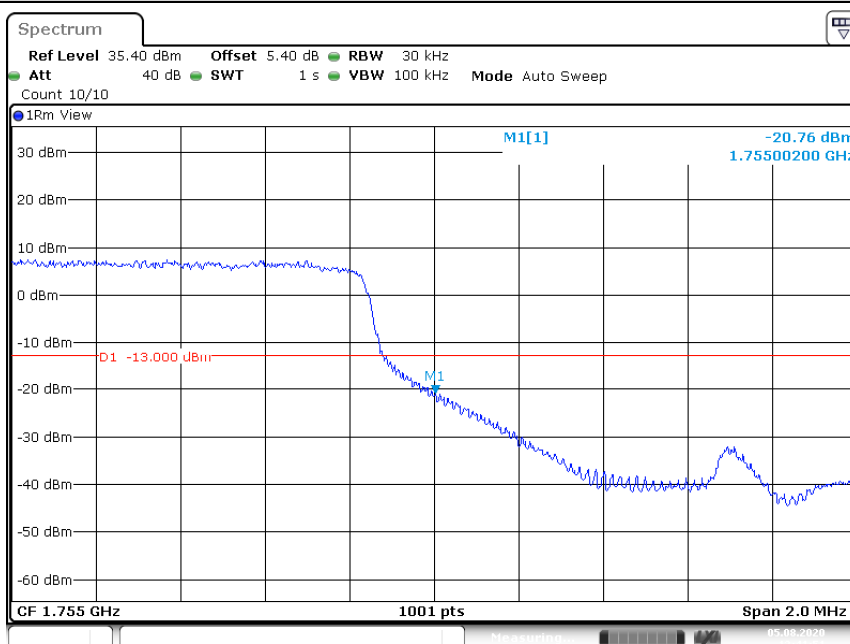
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-1.4MHz-16QAM-20393-1RB#5



Date: 5.AUG.2020 12:41:31

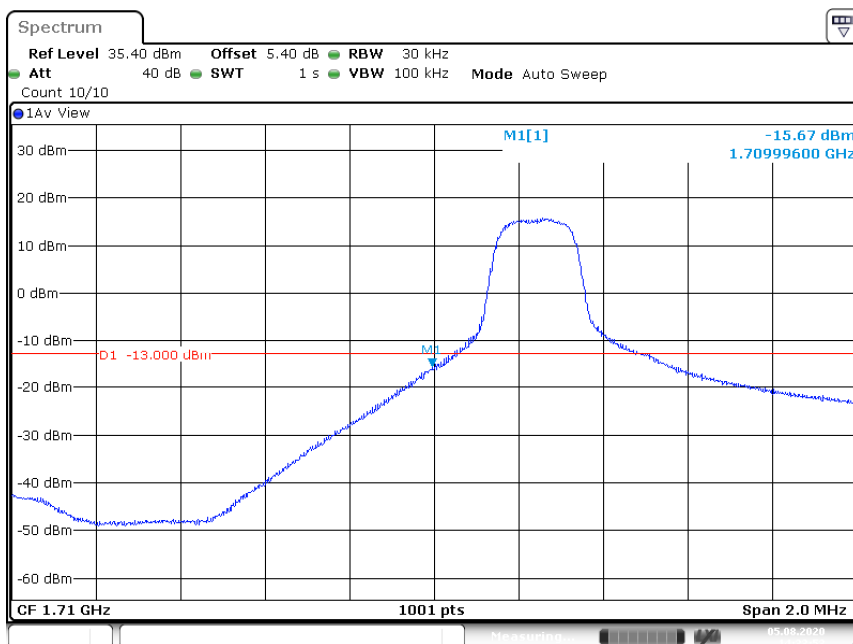
Band4-1.4MHz-16QAM-20393-6RB#0



Date: 5.AUG.2020 12:41:52

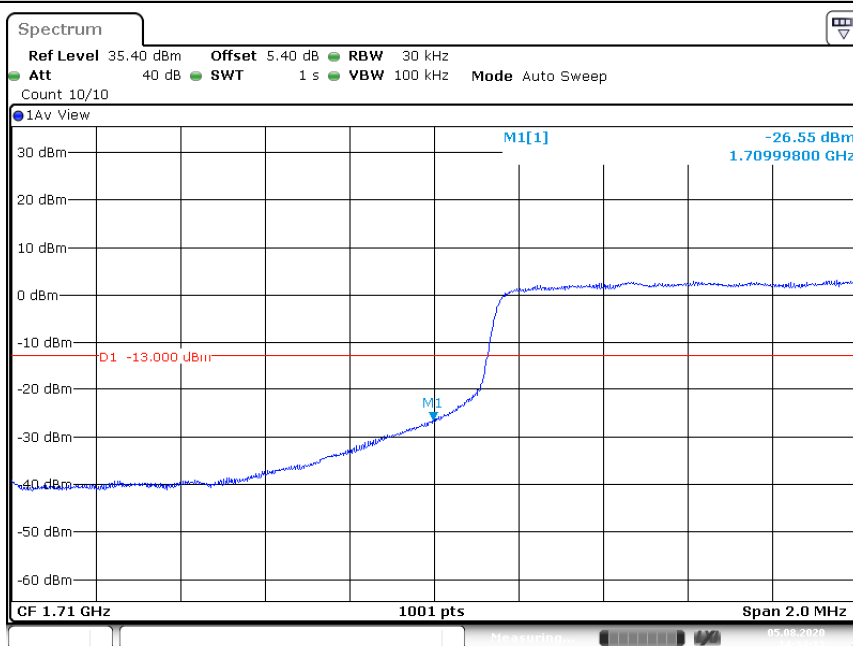


Band4-3MHz-QPSK-19965-1RB#0



Date: 5.AUG.2020 14:33:53

Band4-3MHz-QPSK-19965-15RB#0

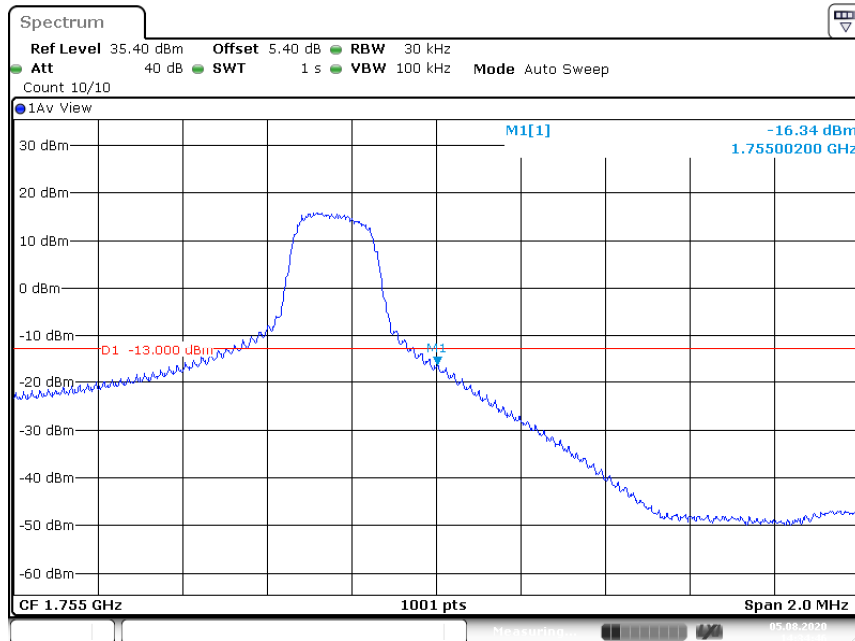


Date: 5.AUG.2020 14:34:14



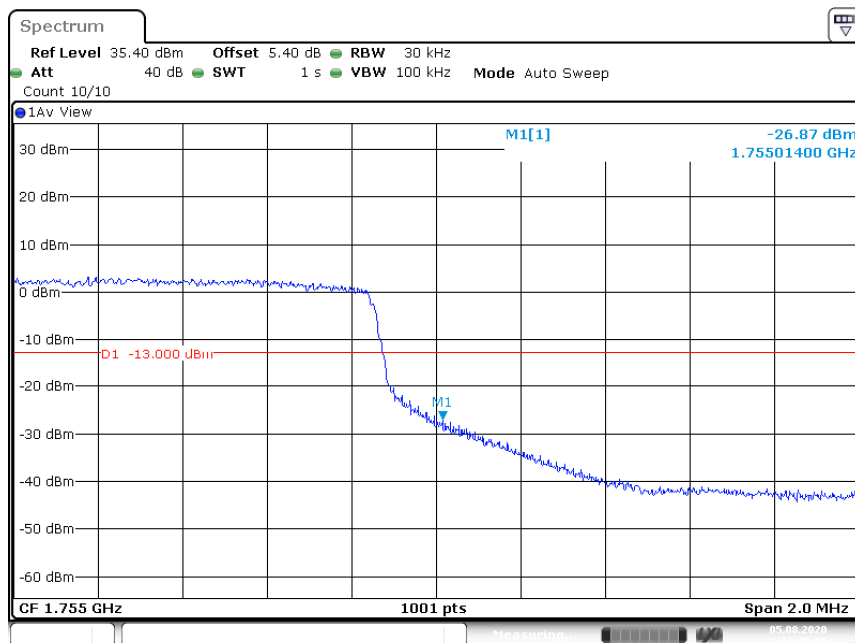


Band4-3MHz-QPSK-20385-1RB#14



Date: 5.AUG.2020 14:34:46

Band4-3MHz-QPSK-20385-15RB#0



Date: 5.AUG.2020 14:35:06

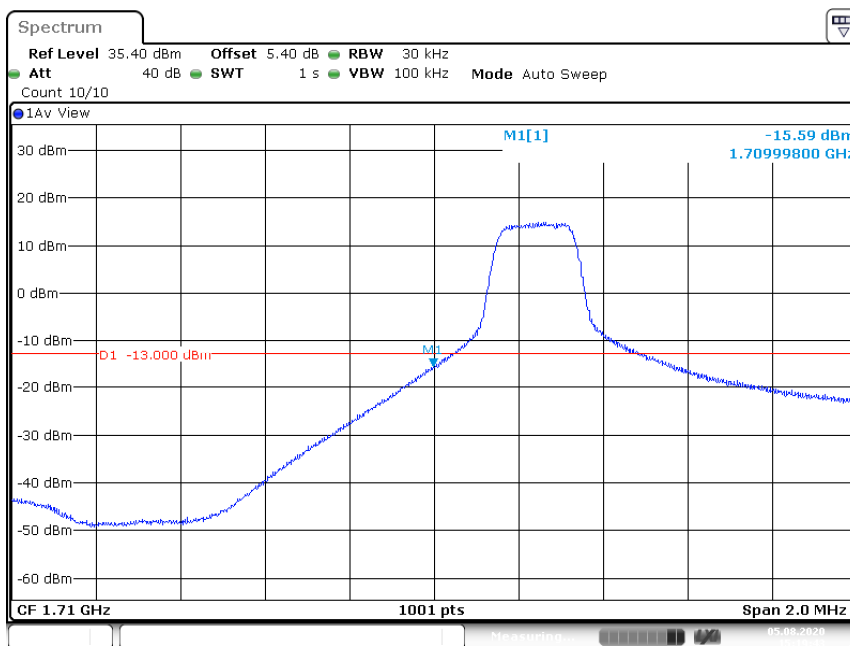


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

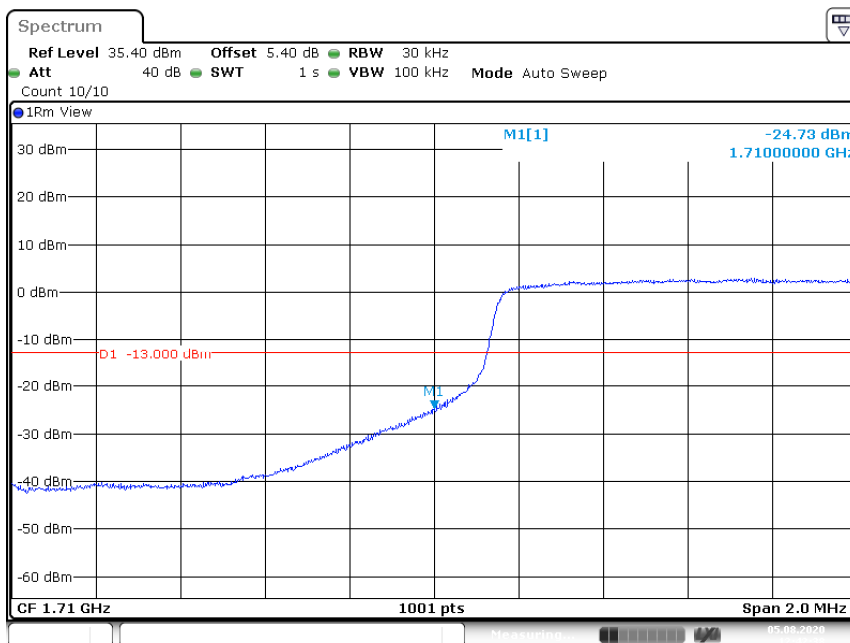


Band4-3MHz-16QAM-19965-1RB#0



Date: 5.AUG.2020 15:19:43

Band4-3MHz-16QAM-19965-15RB#0



Date: 5.AUG.2020 12:42:38



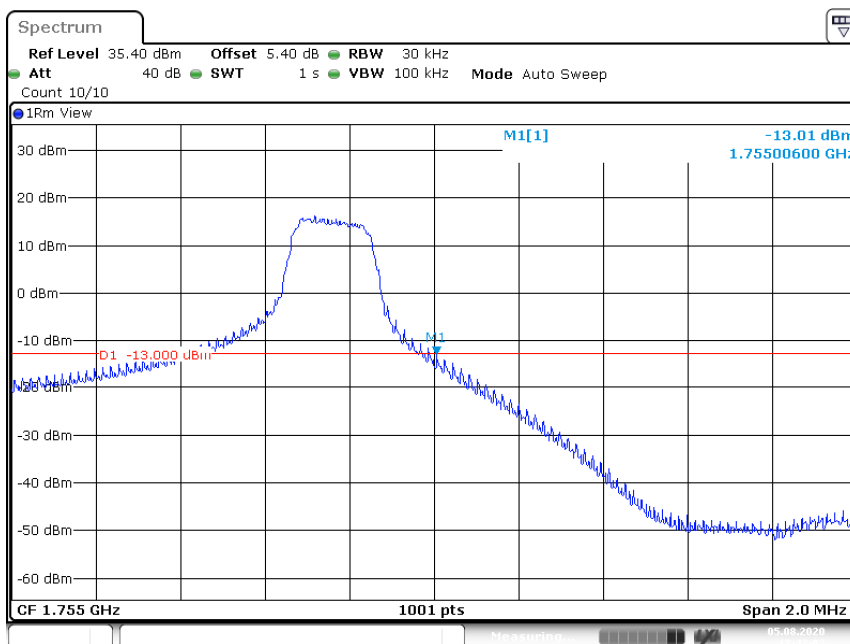
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

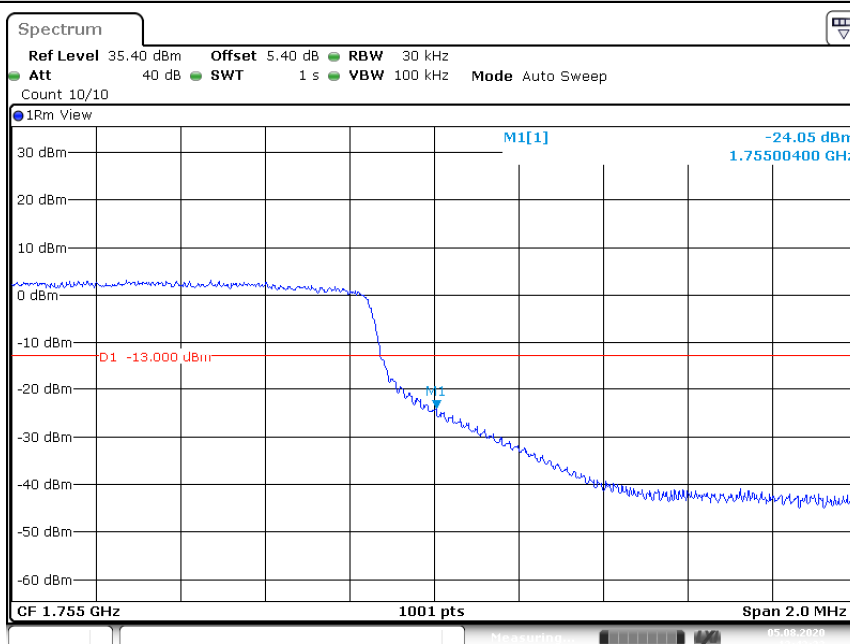


Band4-3MHz-16QAM-20385-1RB#14



Date: 5.AUG.2020 12:43:03

Band4-3MHz-16QAM-20385-15RB#0



Date: 5.AUG.2020 12:43:23

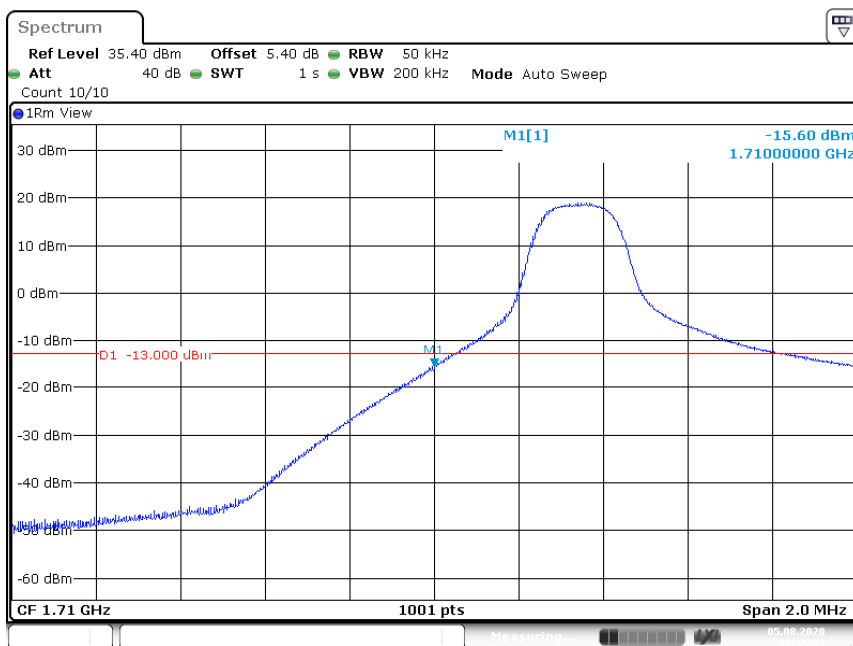


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

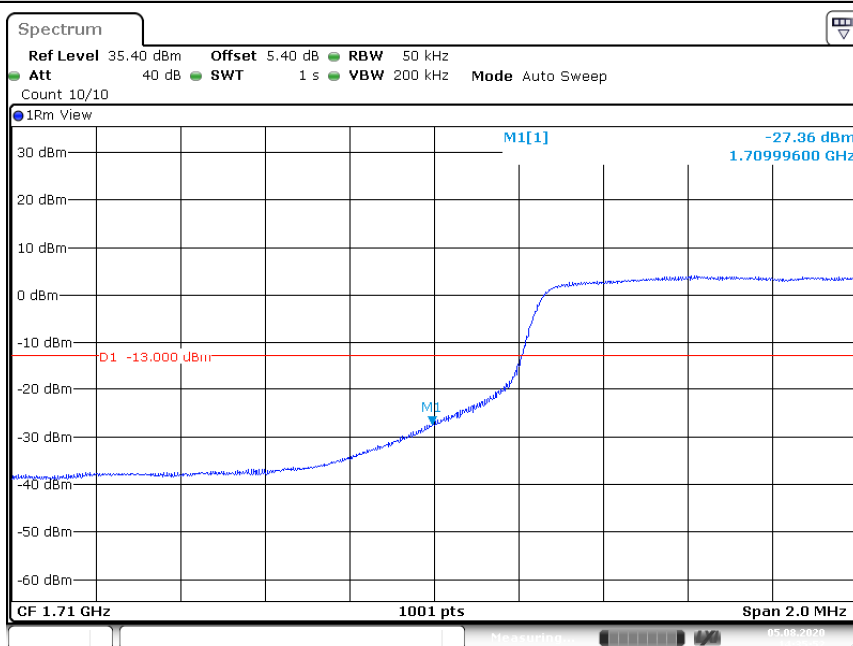


Band4-5MHz-QPSK-19975-1RB#0



Date: 5.AUG.2020 14:35:32

Band4-5MHz-QPSK-19975-25RB#0



Date: 5.AUG.2020 14:35:52



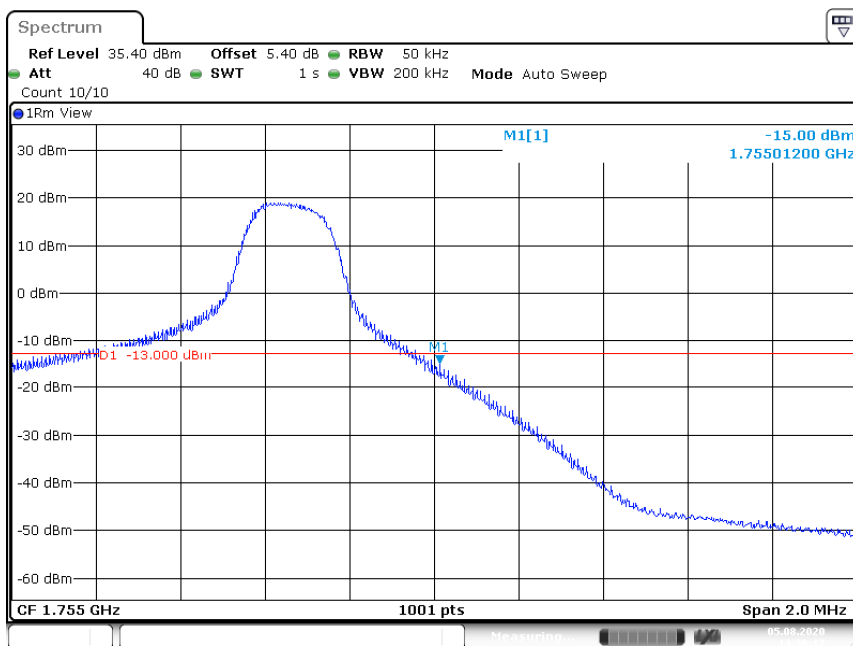
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

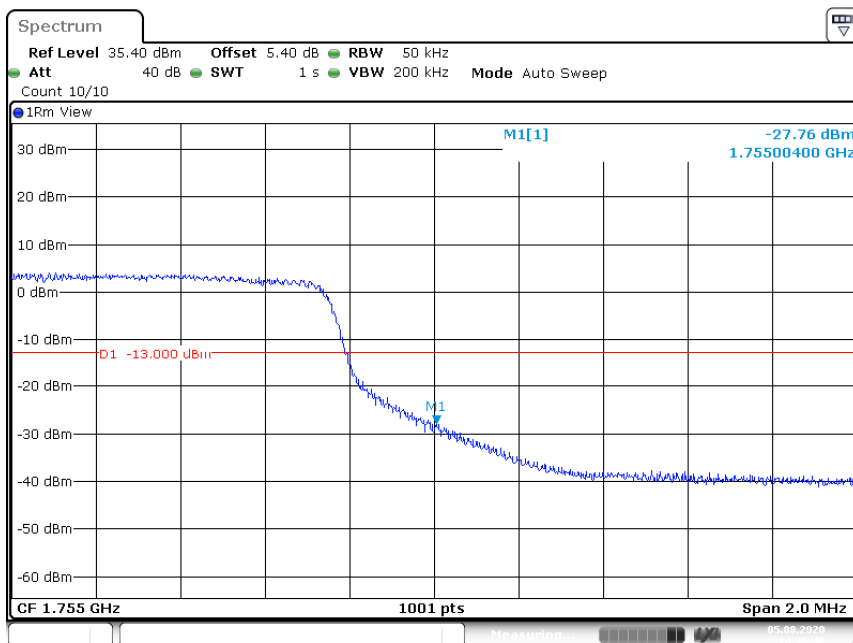


Band4-5MHz-QPSK-20375-1RB#24



Date: 5.AUG.2020 14:36:17

Band4-5MHz-QPSK-20375-25RB#0



Date: 5.AUG.2020 14:36:40



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

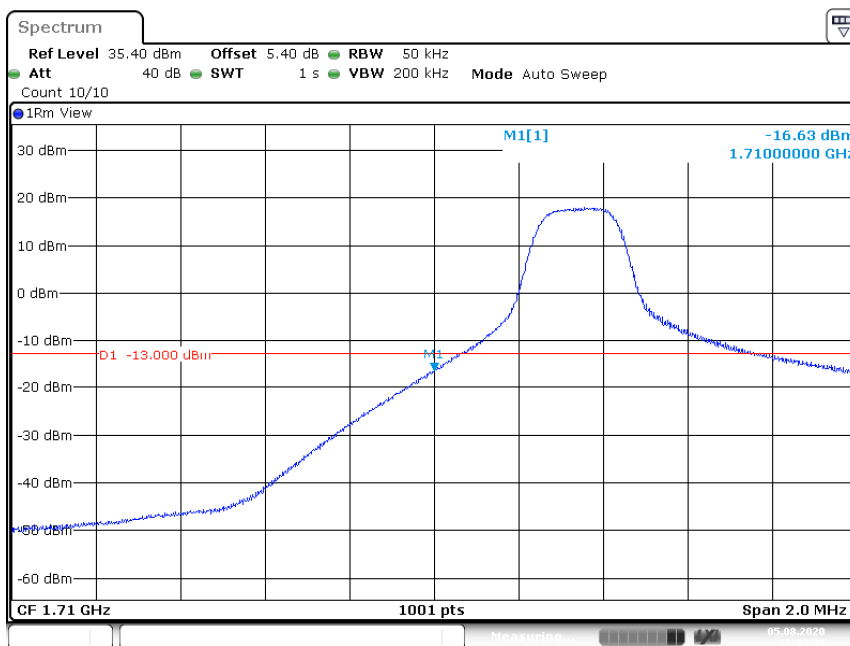
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

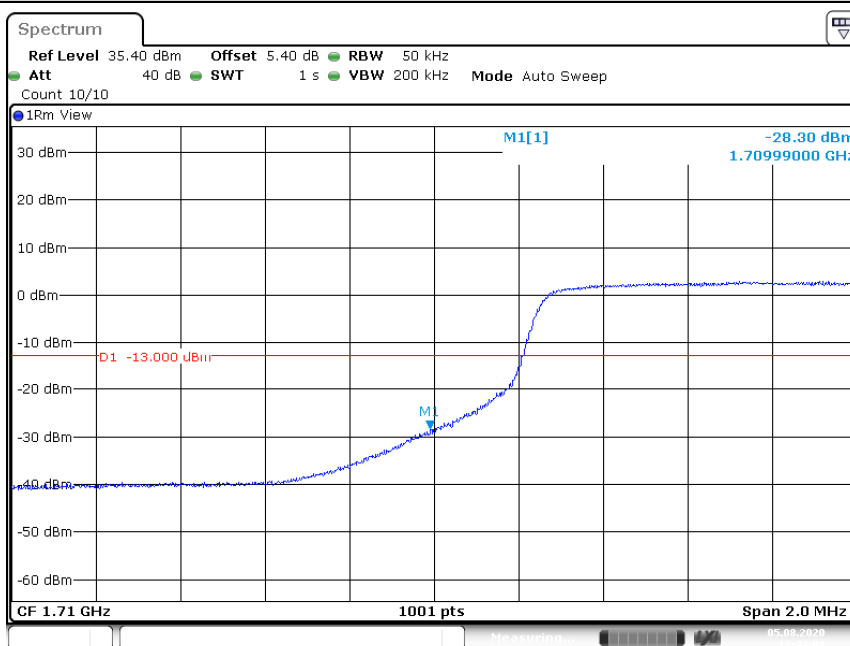


Band4-5MHz-16QAM-19975-1RB#0



Date: 5.AUG.2020 12:43:49

Band4-5MHz-16QAM-19975-25RB#0



Date: 5.AUG.2020 12:44:09



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center CCC Laboratory

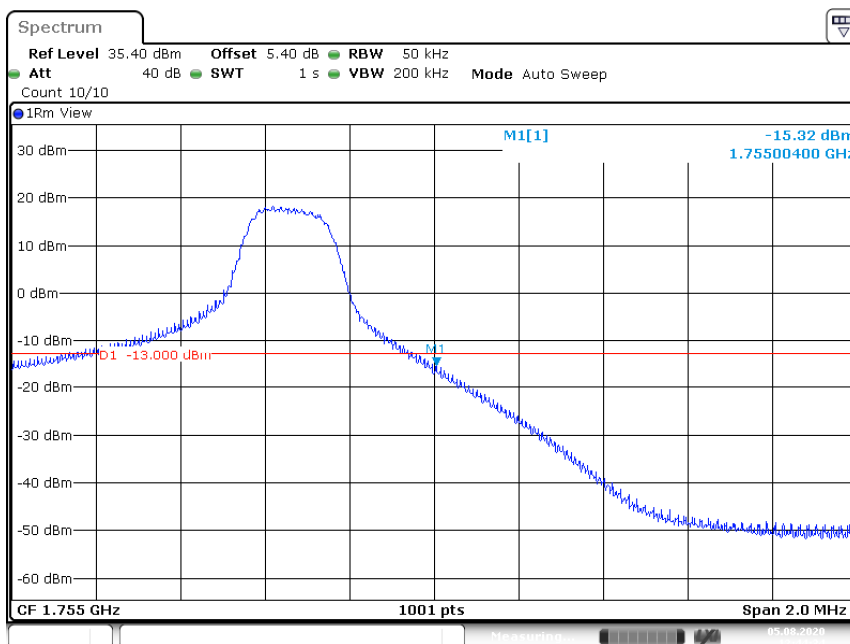
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

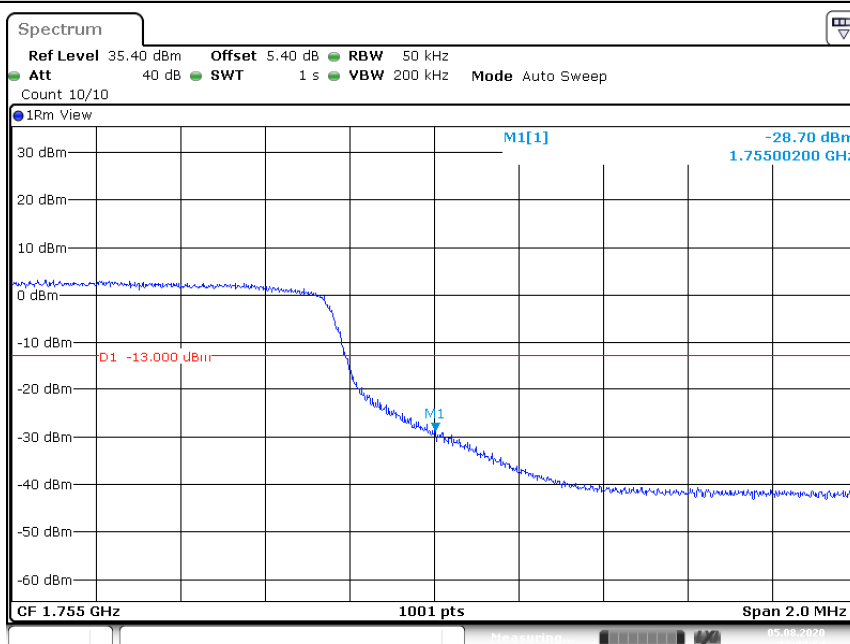


Band4-5MHz-16QAM-20375-1RB#24



Date: 5.AUG.2020 12:44:34

Band4-5MHz-16QAM-20375-25RB#0

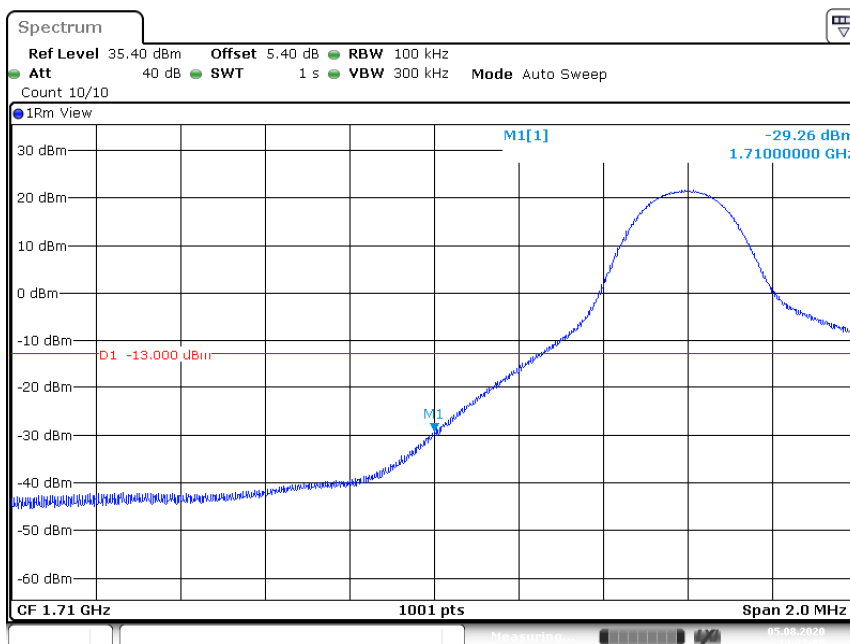


Date: 5.AUG.2020 12:44:55



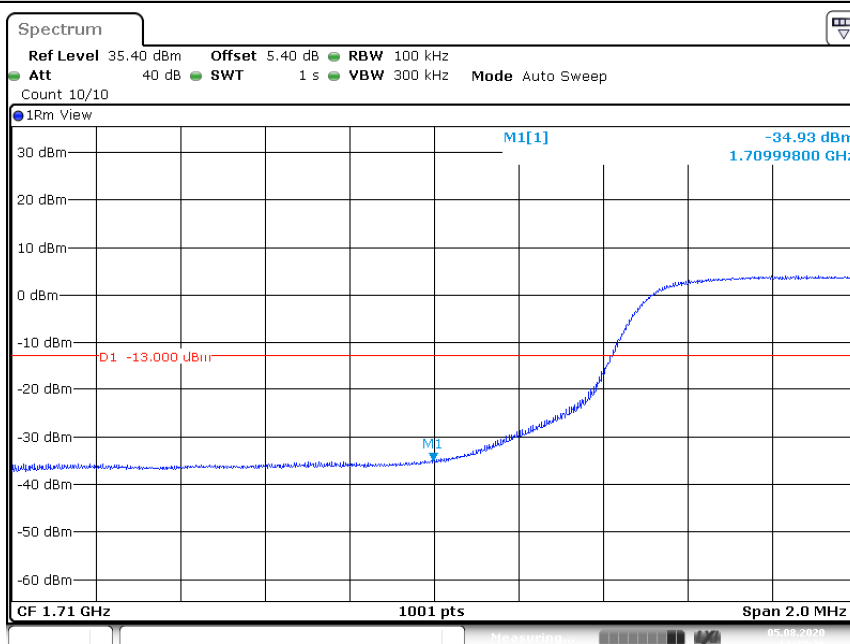


Band4-10MHz-QPSK-20000-1RB#0



Date: 5.AUG.2020 14:37:06

Band4-10MHz-QPSK-20000-50RB#0



Date: 5.AUG.2020 14:37:27



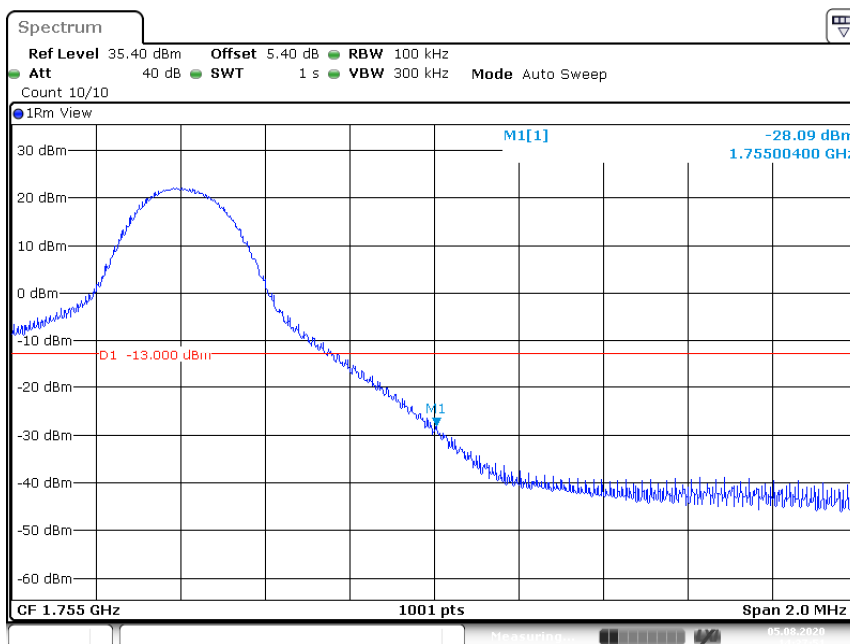
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center CCC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

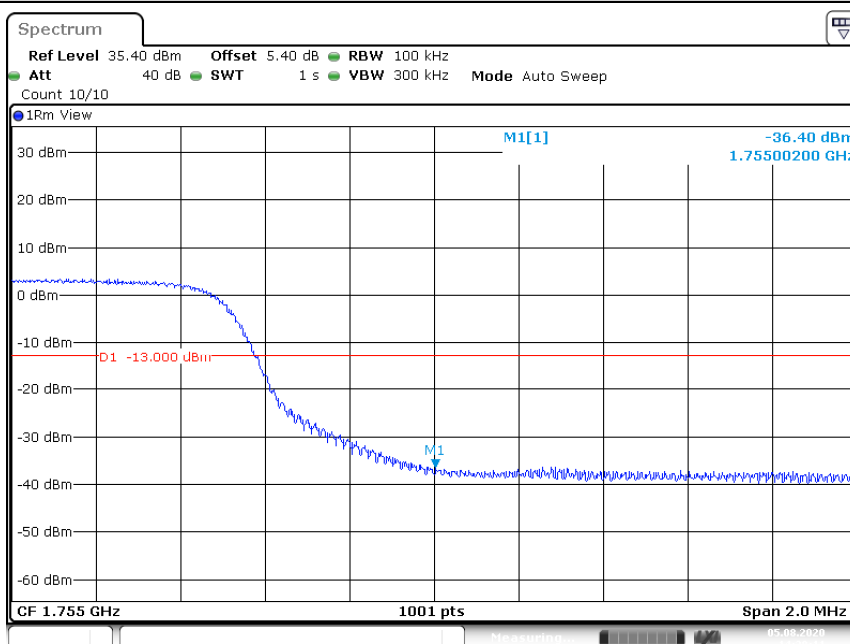
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-10MHz-QPSK-20350-1RB#49



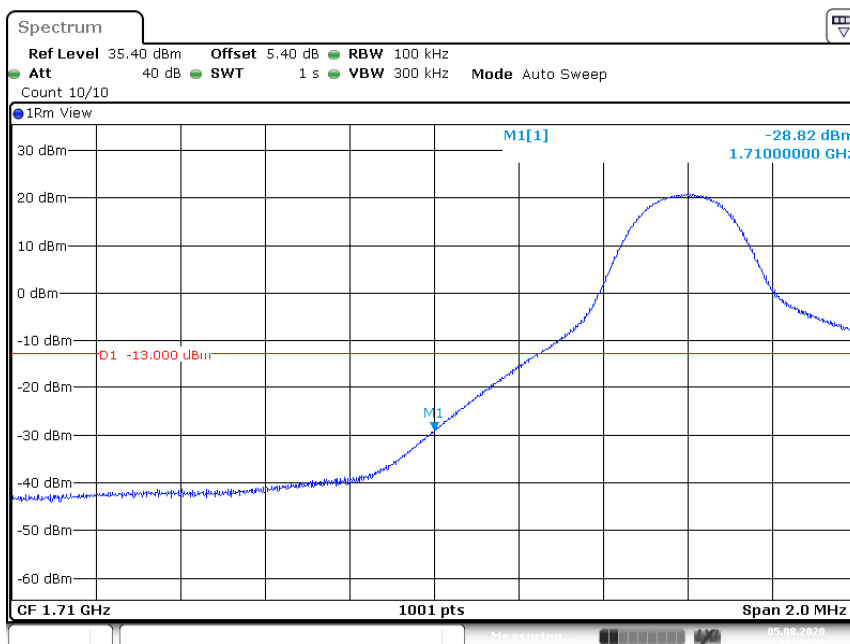
Band4-10MHz-QPSK-20350-50RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

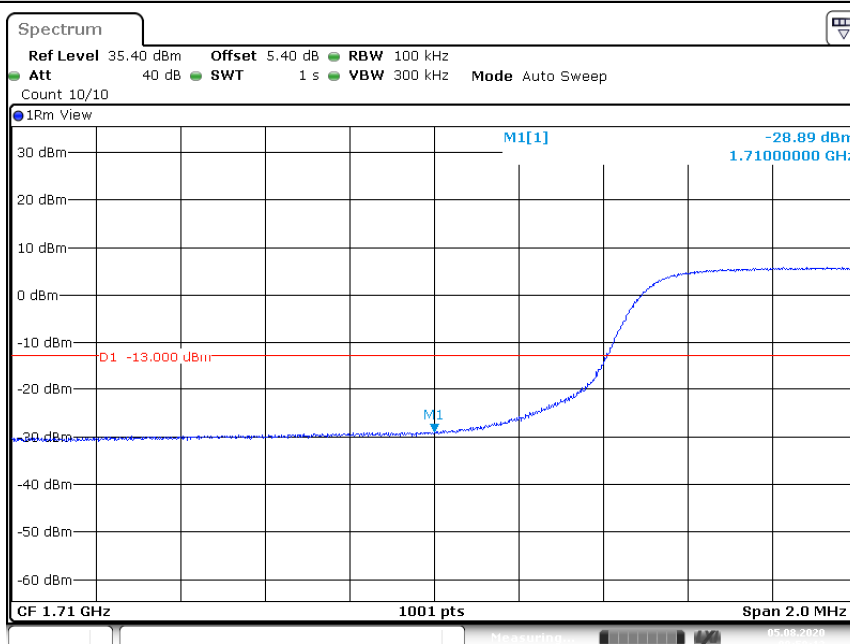


Band4-10MHz-16QAM-20000-1RB#0



Date: 5.AUG.2020 12:45:20

Band4-10MHz-16QAM-20000-32RB#0

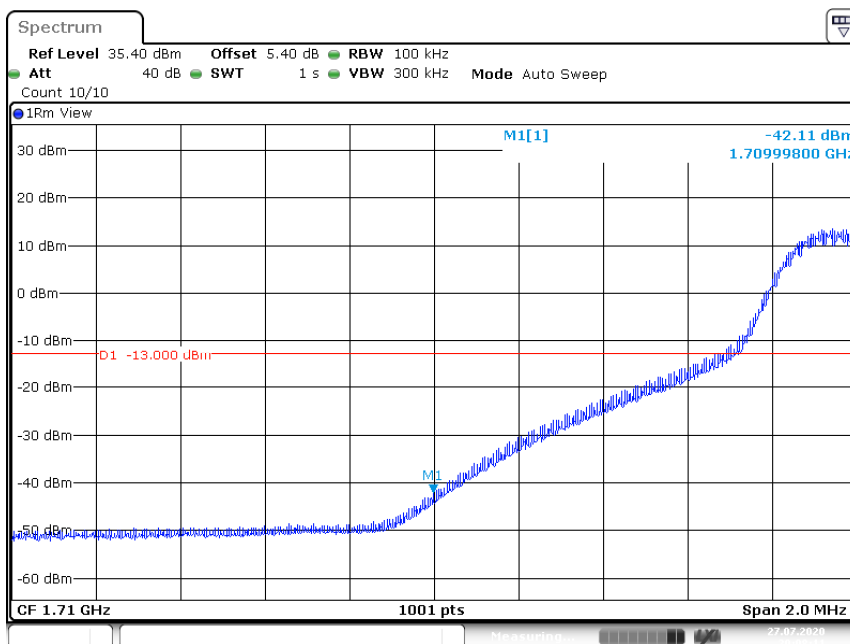


Date: 5.AUG.2020 08:58:13



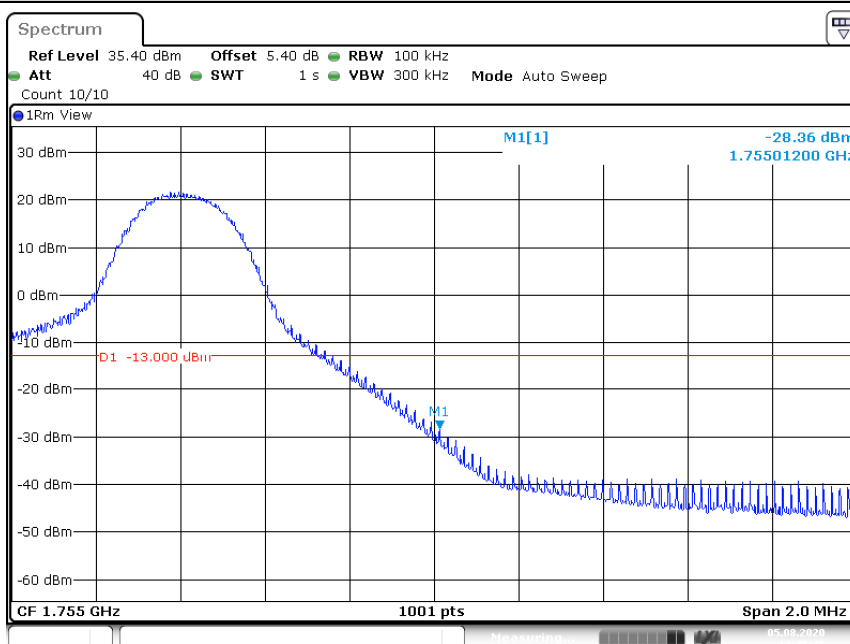


Band4-10MHz-16QAM-20000-50RB#0



Date: 27.JUL.2020 20:08:11

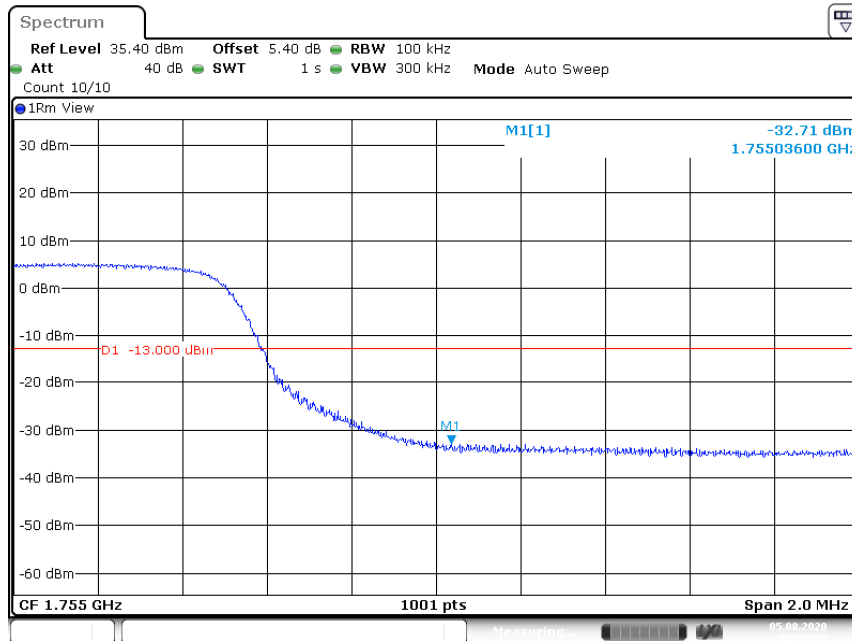
Band4-10MHz-16QAM-20350-1RB#49



Date: 5.AUG.2020 12:45:45

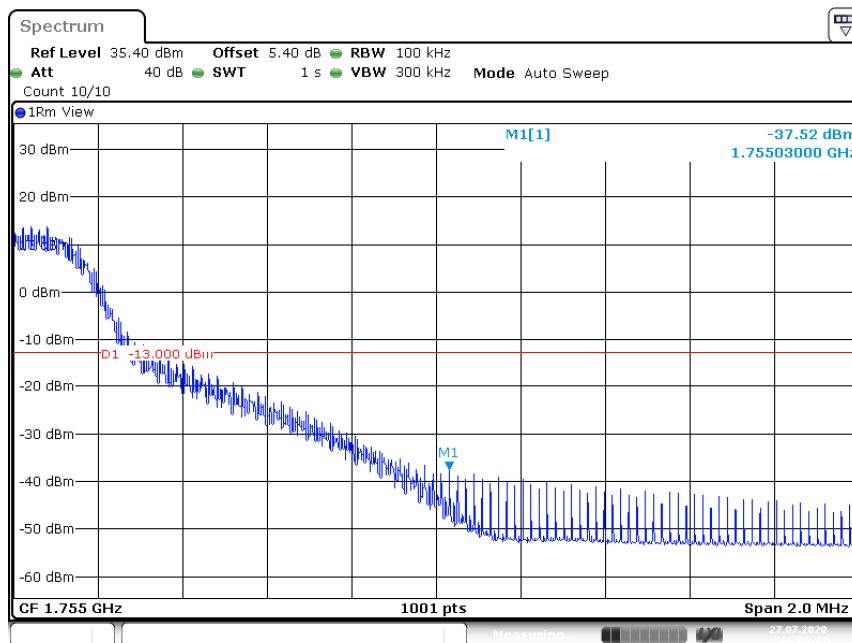


Band4-10MHz-16QAM-20350-32RB#18



Date: 5.AUG.2020 08:58:38

Band4-10MHz-16QAM-20350-50RB#0

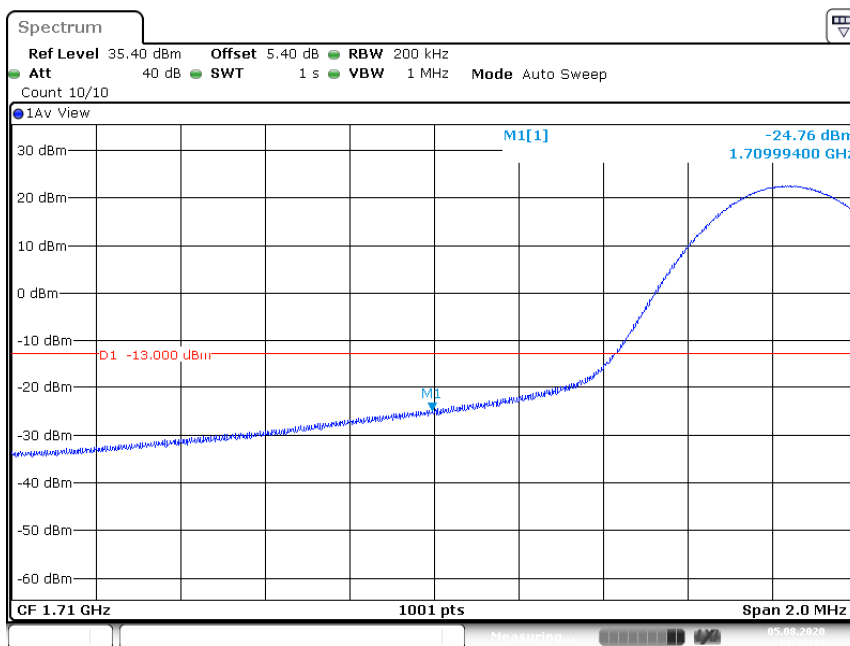


Date: 27.JUL.2020 20:09:37



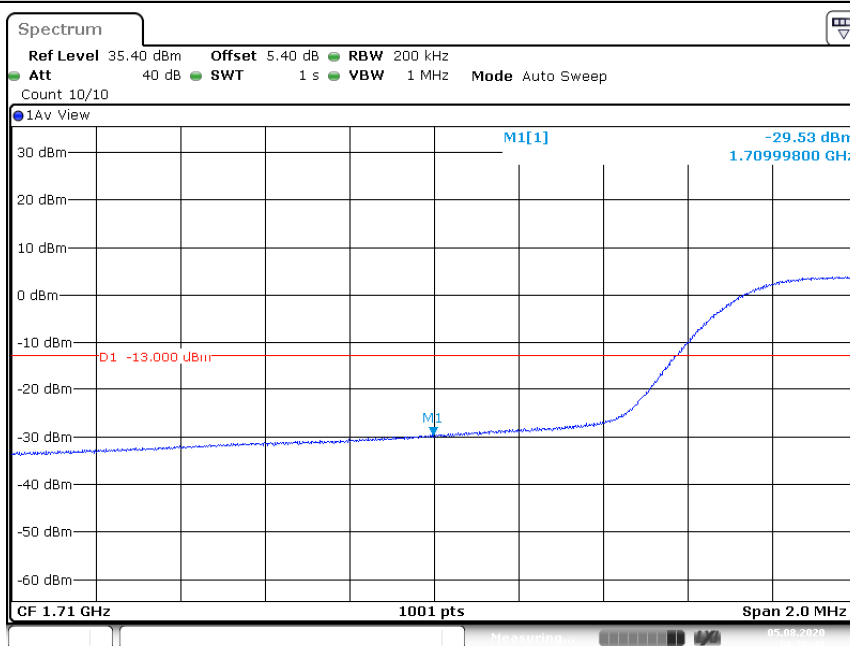


Band4-15MHz-QPSK-20025-1RB#0



Date: 5.AUG.2020 14:39:20

Band4-15MHz-QPSK-20025-75RB#0



Date: 5.AUG.2020 14:39:40



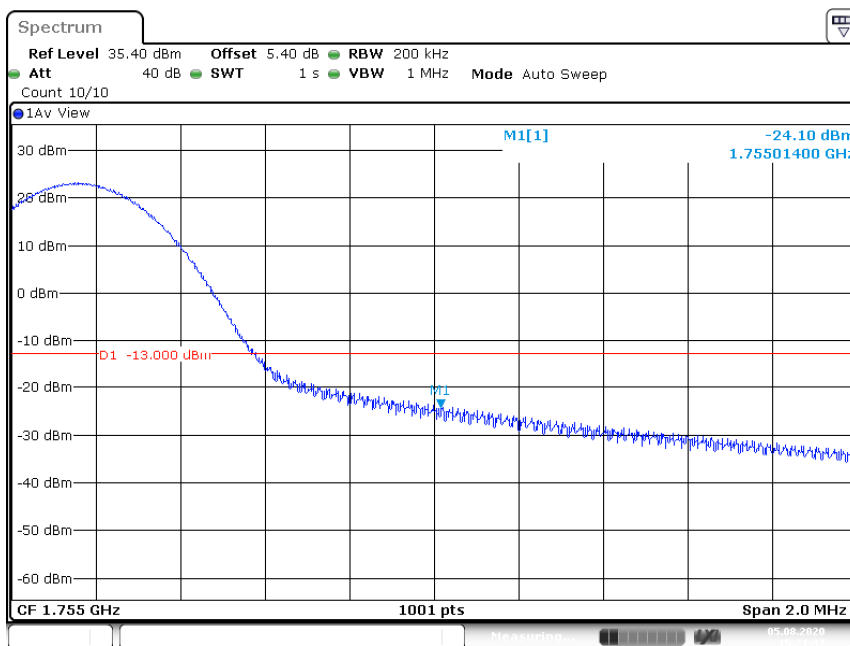
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Centre EEC Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

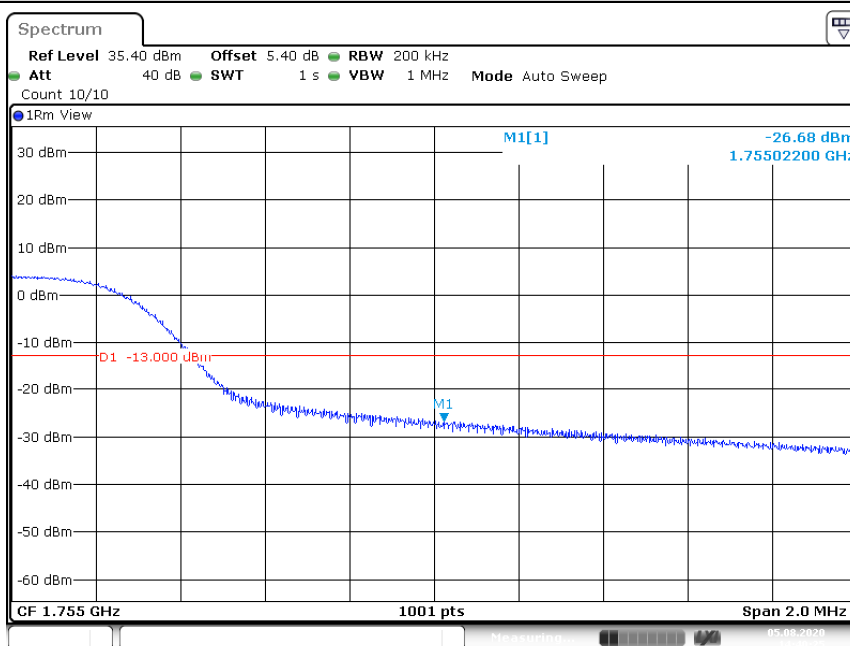


Band4-15MHz-QPSK-20325-1RB#74



Date: 5.AUG.2020 15:21:38

Band4-15MHz-QPSK-20325-75RB#0



Date: 5.AUG.2020 14:40:25



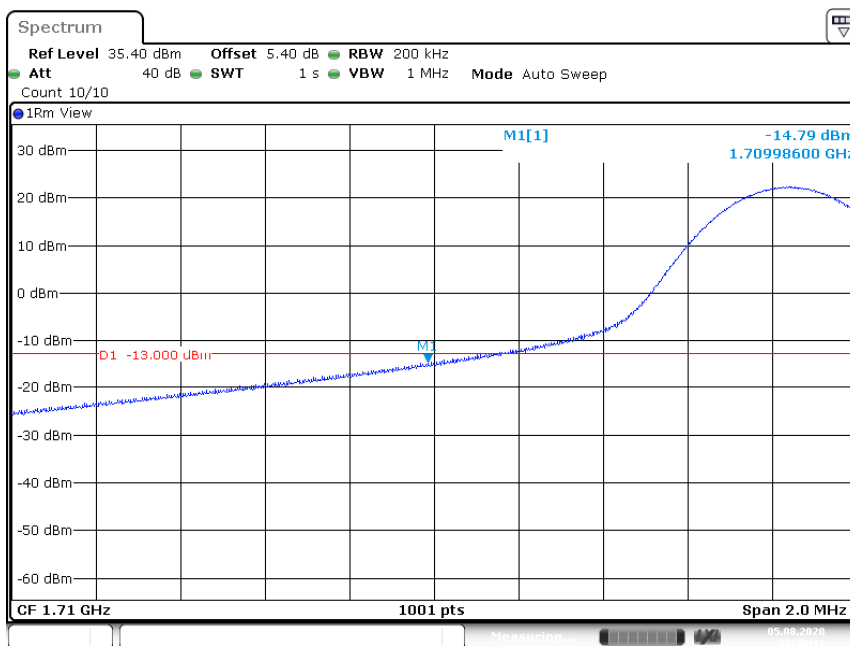
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA) Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

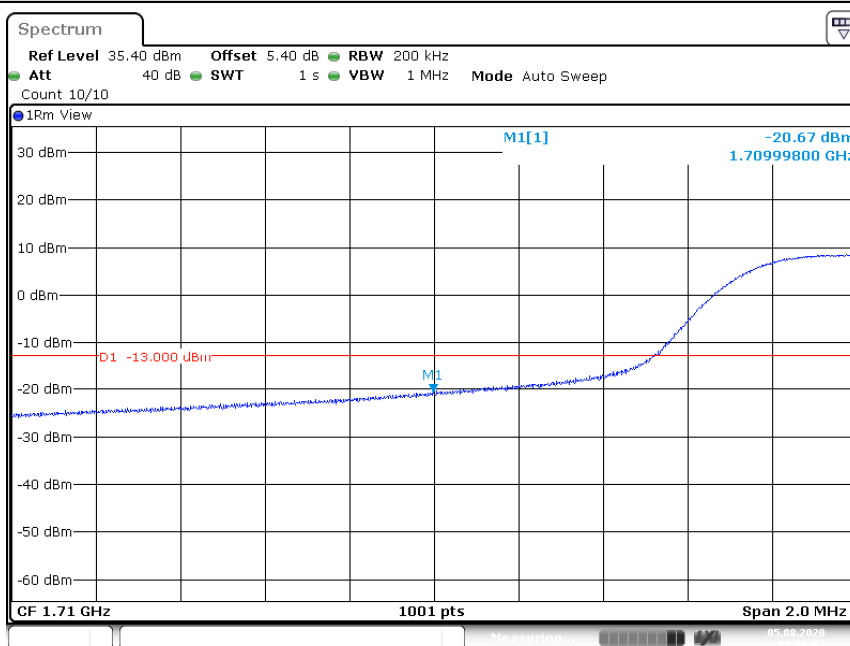


Band4-15MHz-16QAM-20025-1RB#0



Date: 5.AUG.2020 12:46:11

Band4-15MHz-16QAM-20025-32RB#0



Date: 5.AUG.2020 08:59:03



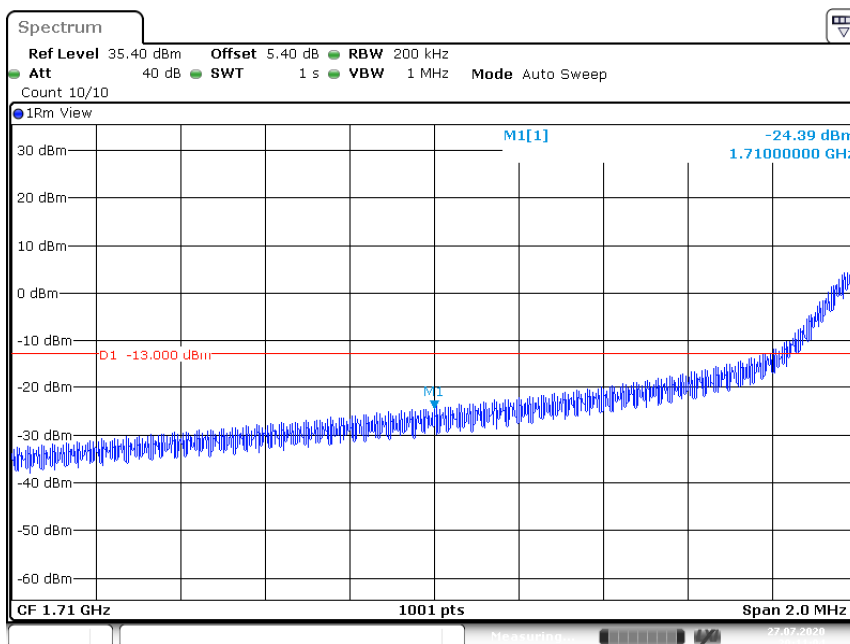
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

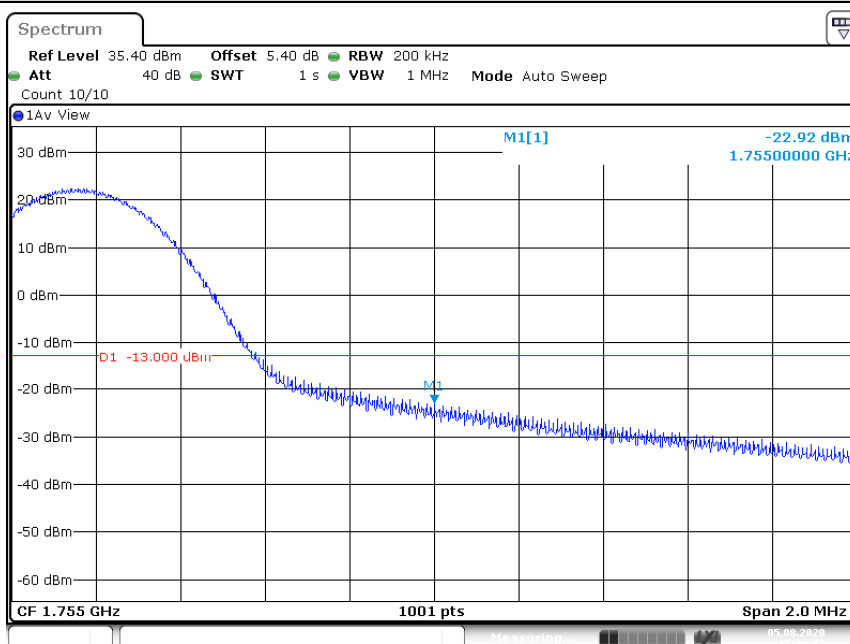


Band4-15MHz-16QAM-20025-75RB#0



Date: 27.JUL.2020 20:11:04

Band4-15MHz-16QAM-20325-1RB#74

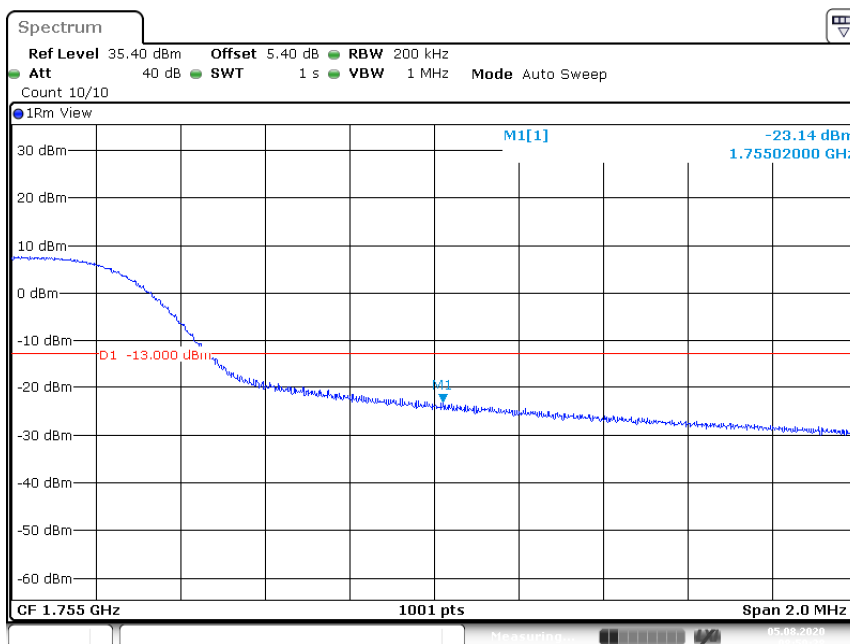


Date: 5.AUG.2020 15:20:14



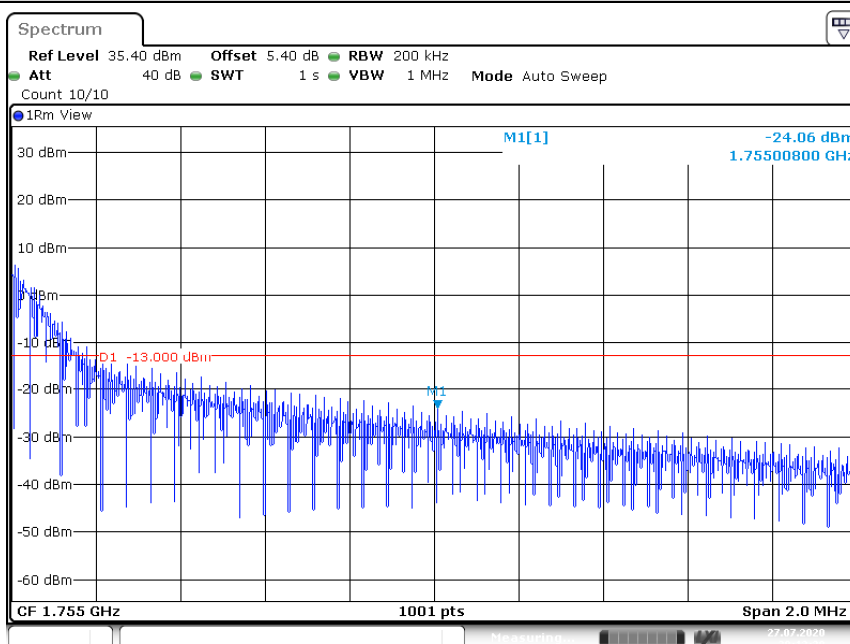


Band4-15MHz-16QAM-20325-32RB#43



Date: 5.AUG.2020 08:59:28

Band4-15MHz-16QAM-20325-75RB#0

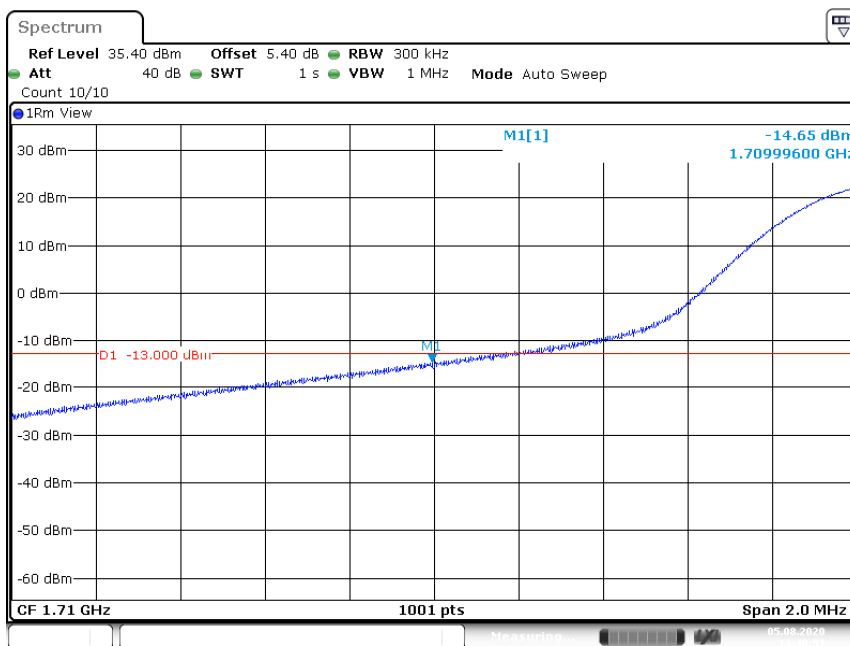


Date: 27.JUL.2020 20:12:30



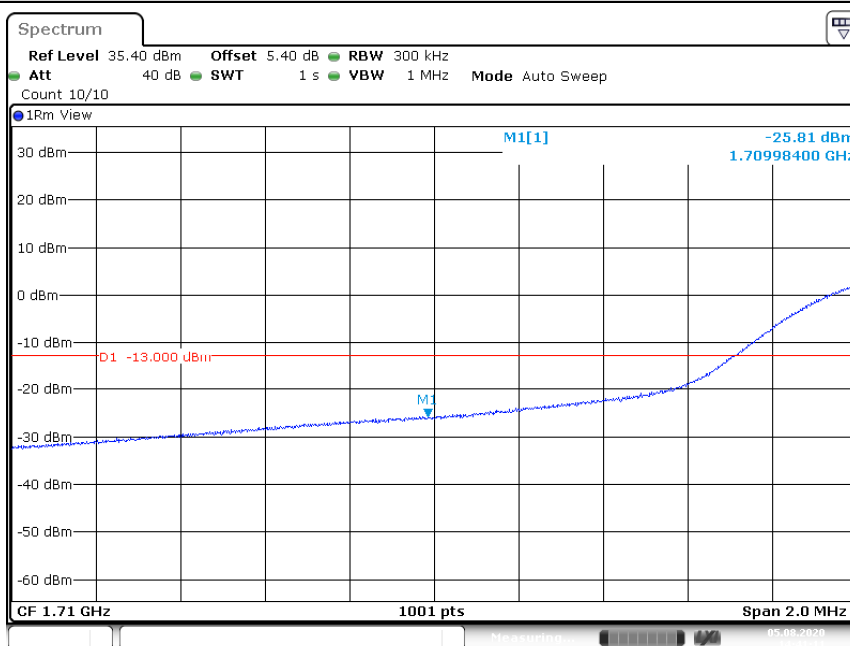


Band4-20MHz-QPSK-20050-1RB#0



Date: 5.AUG.2020 14:40:51

Band4-20MHz-QPSK-20050-100RB#0



Date: 5.AUG.2020 14:41:11



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

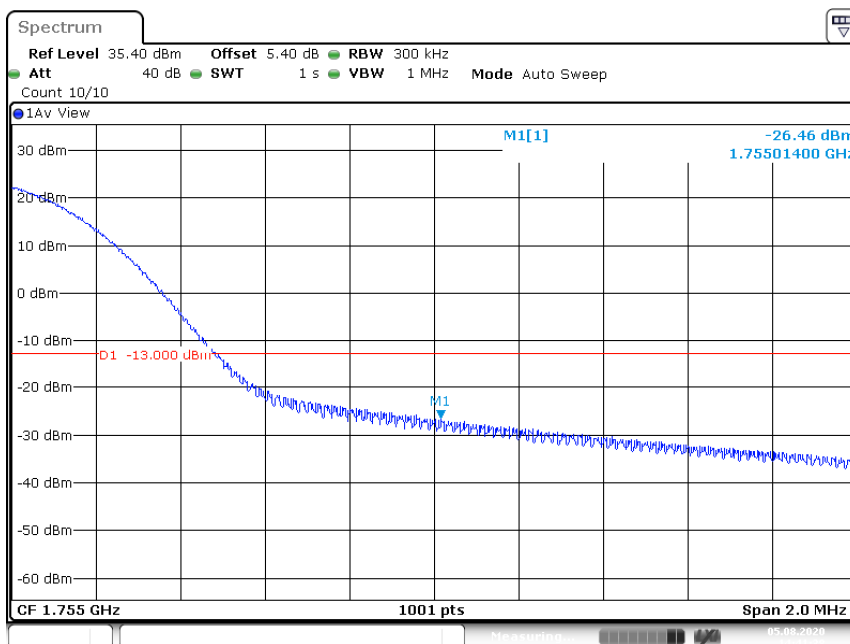
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

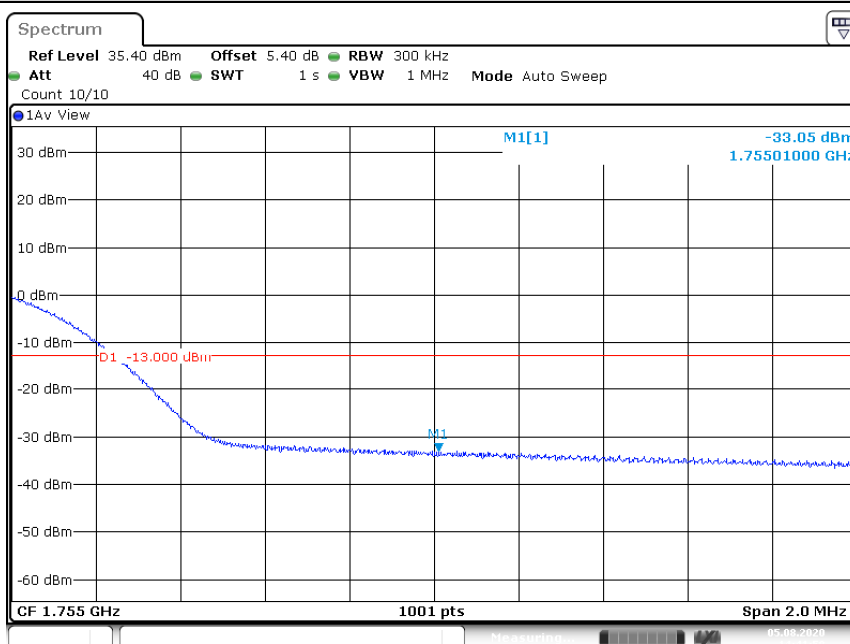


Band4-20MHz-QPSK-20300-1RB#99



Date: 5.AUG.2020 14:41:38

Band4-20MHz-QPSK-20300-100RB#0



Date: 5.AUG.2020 14:41:59

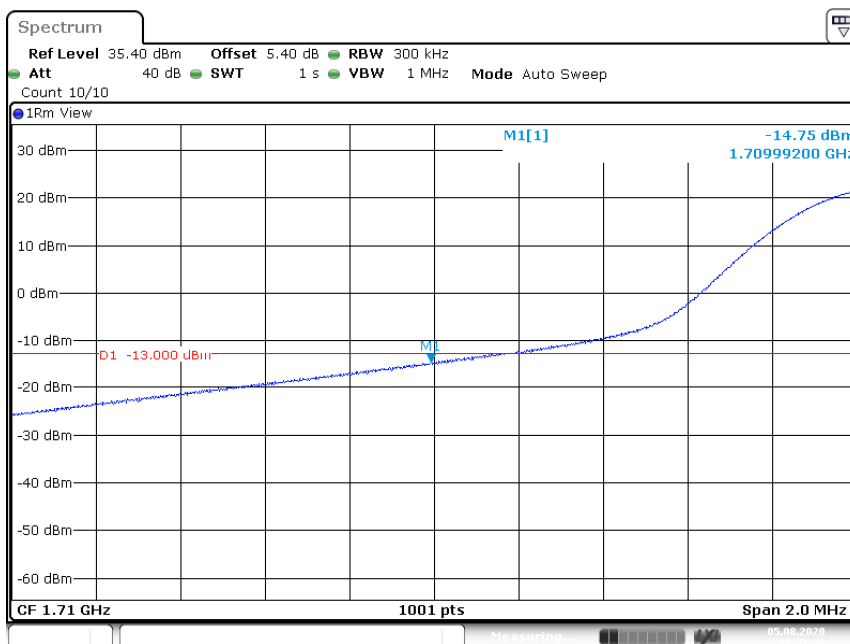


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

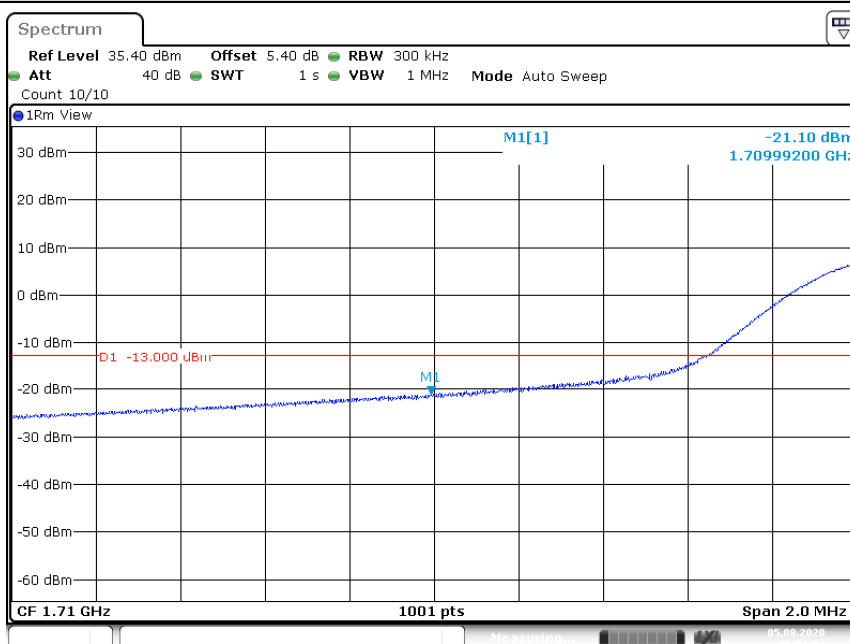


Band4-20MHz-16QAM-20050-1RB#0



Date: 5.AUG.2020 12:47:07

Band4-20MHz-16QAM-20050-32RB#0



Date: 5.AUG.2020 08:59:53



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

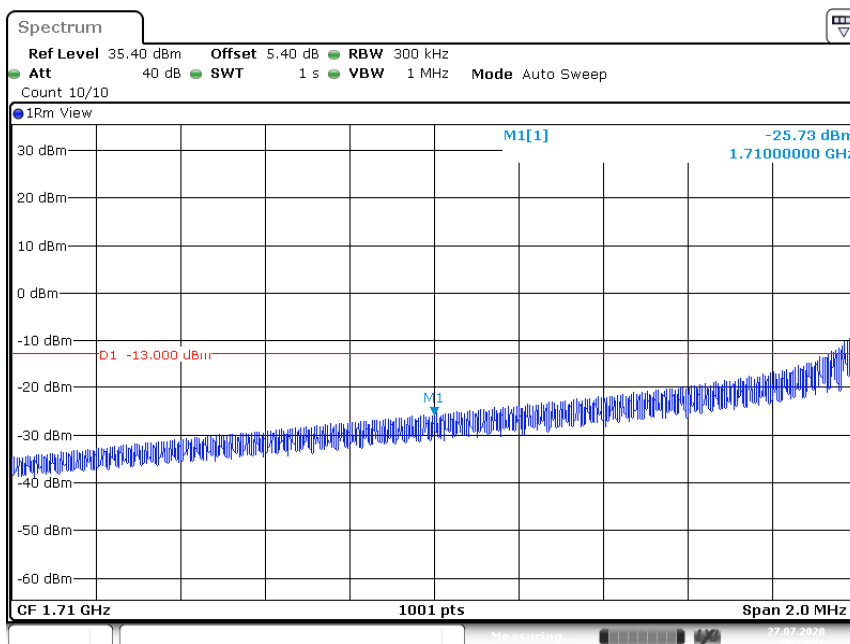
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

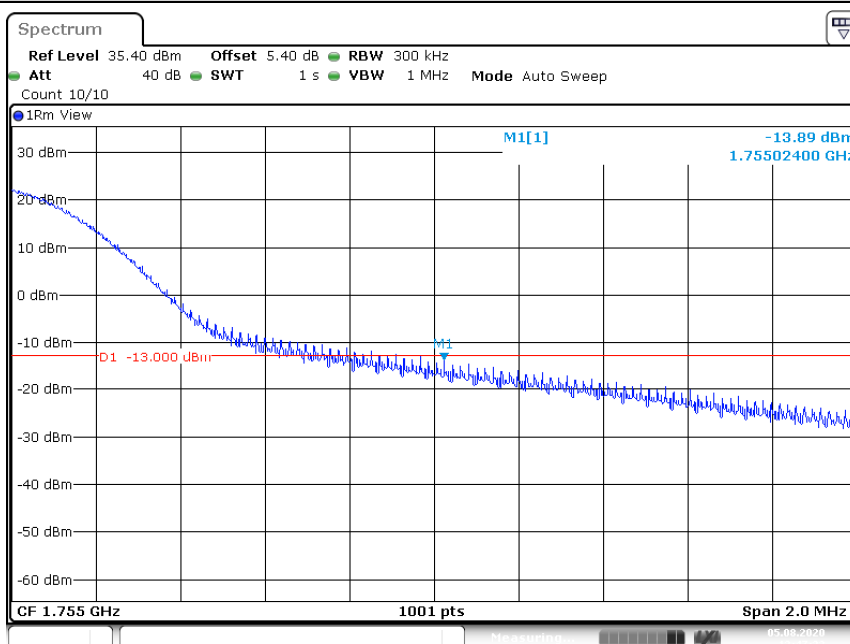


Band4-20MHz-16QAM-20050-100RB#0



Date: 27.JUL.2020 20:13:57

Band4-20MHz-16QAM-20300-1RB#99



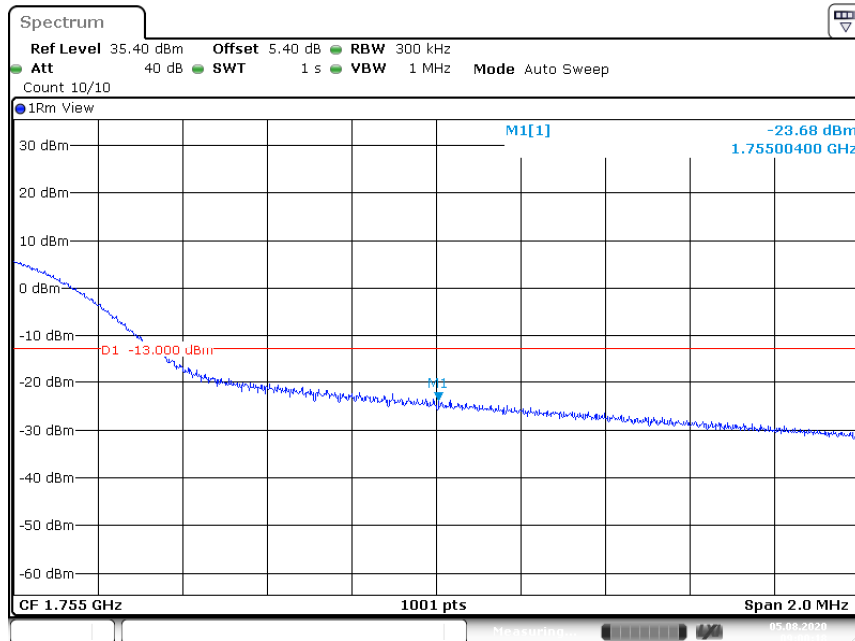
Date: 5.AUG.2020 12:47:32



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

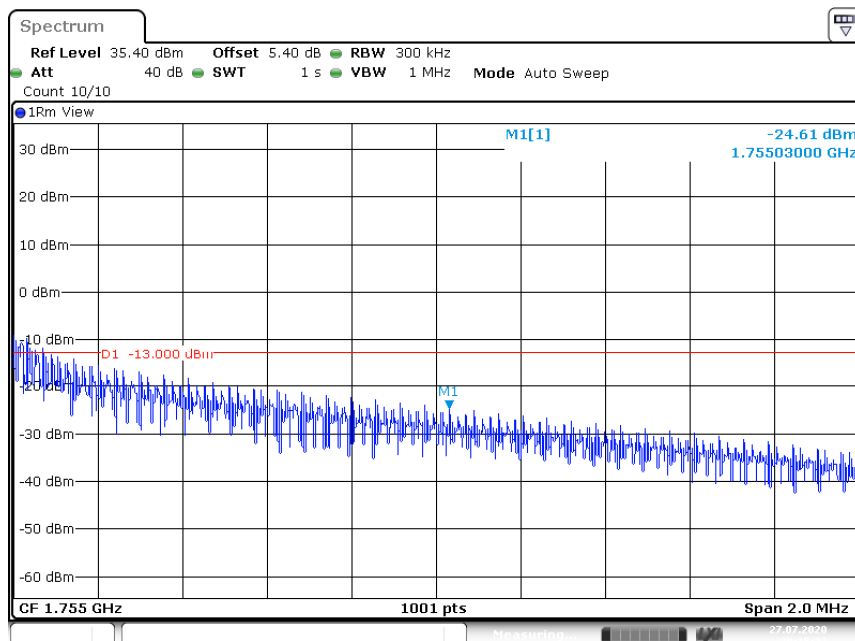


Band4-20MHz-16QAM-20300-32RB#68



Date: 5.AUG.2020 09:00:18

Band4-20MHz-16QAM-20300-100RB#0



Date: 27.JUL.2020 20:15:23

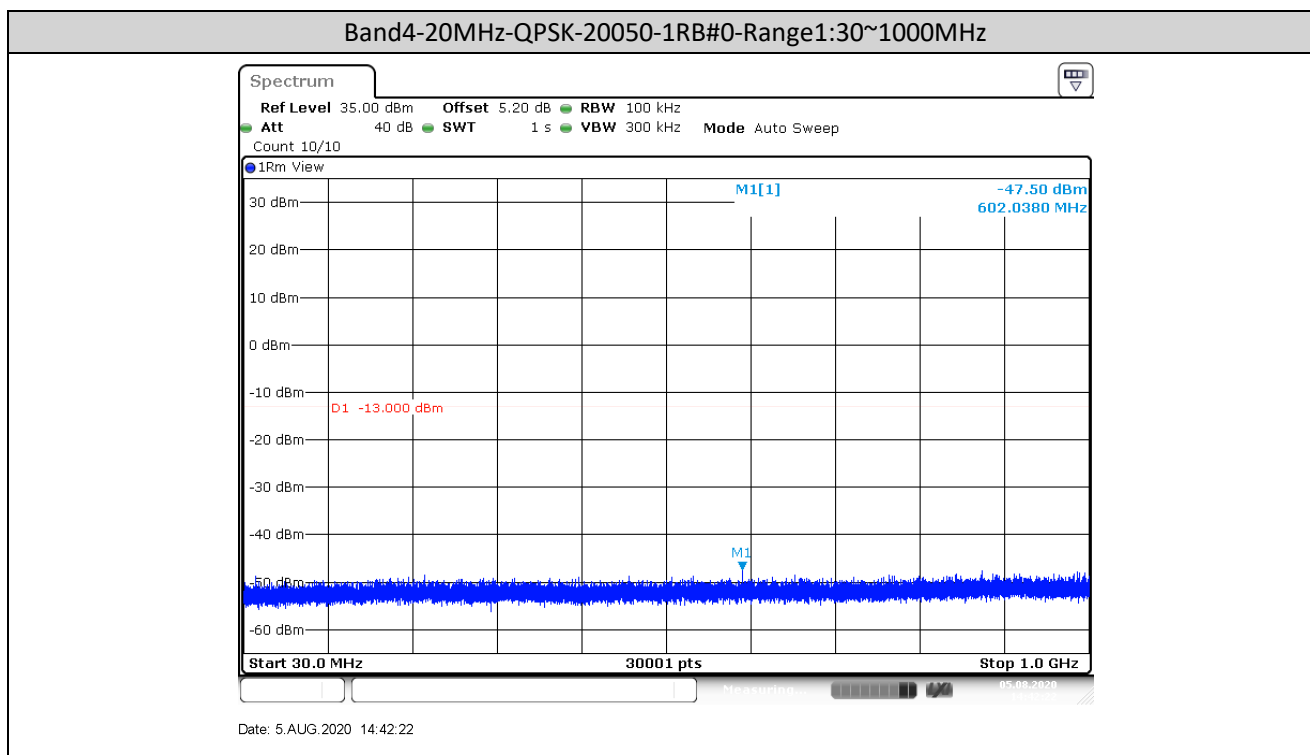


6. Spurious Emission at Antenna Terminal

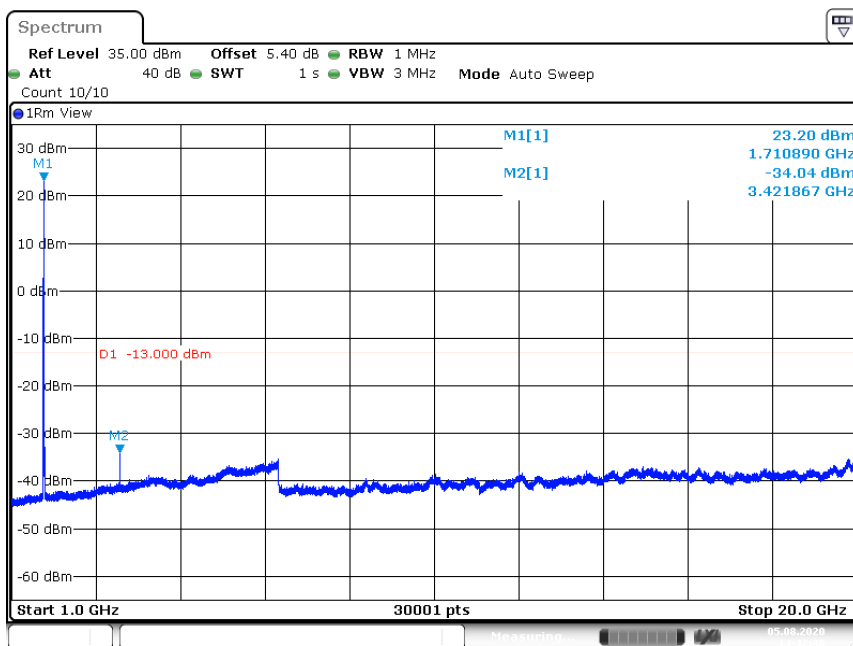
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

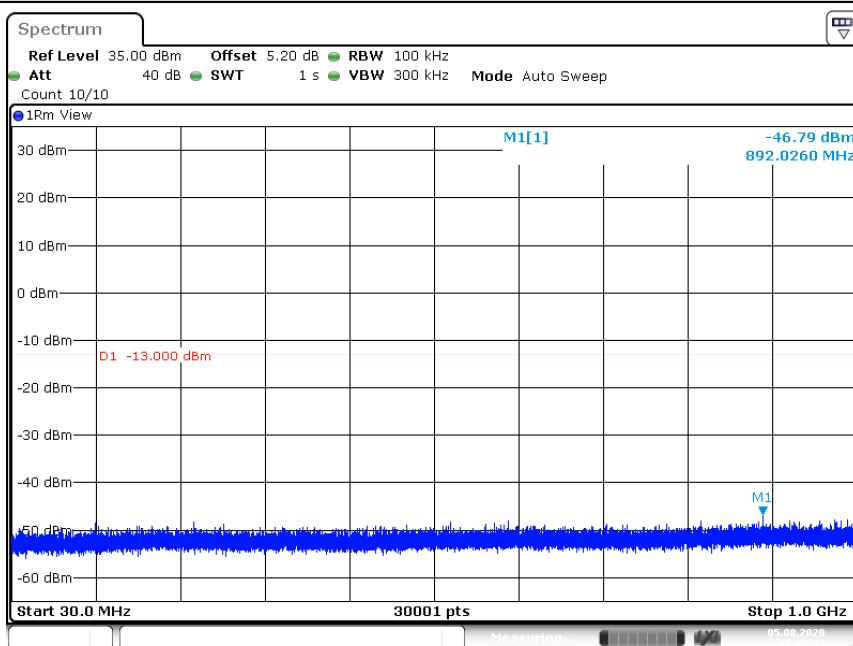


Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 14:42:39

Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 14:42:58

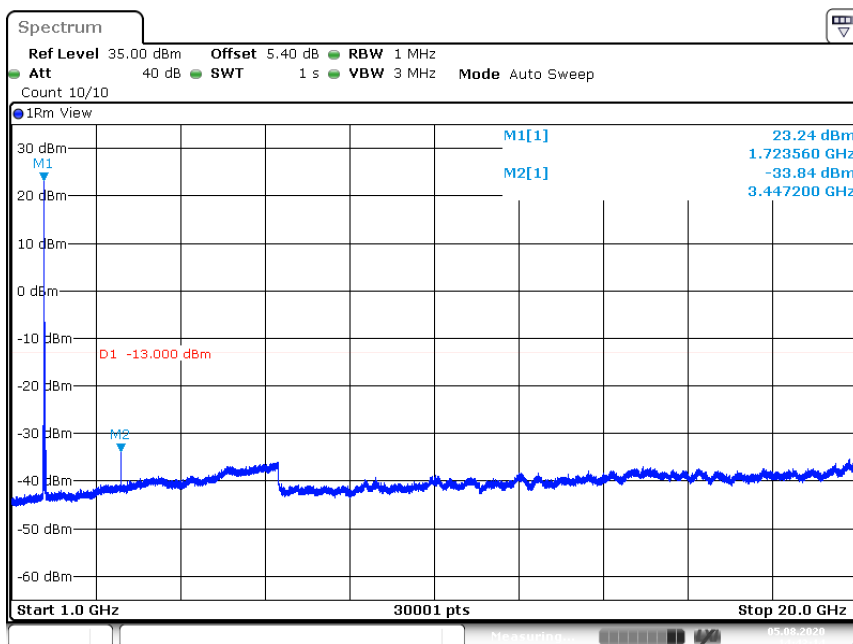


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

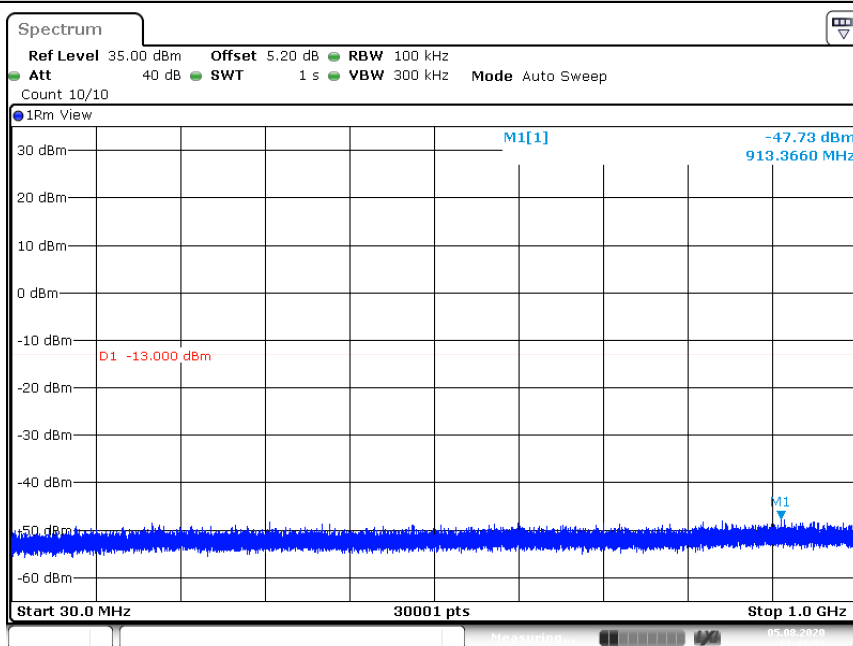
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 14:43:14

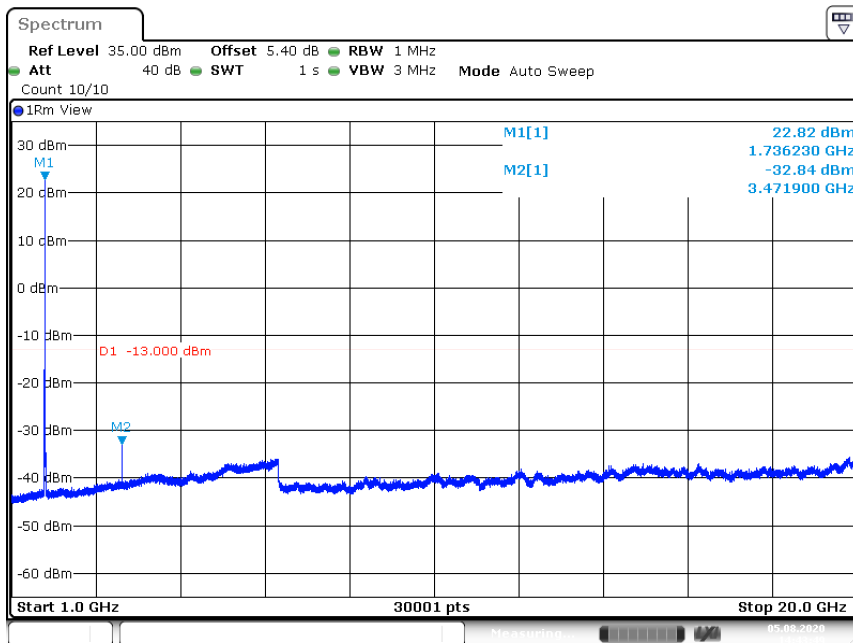
Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 14:43:33

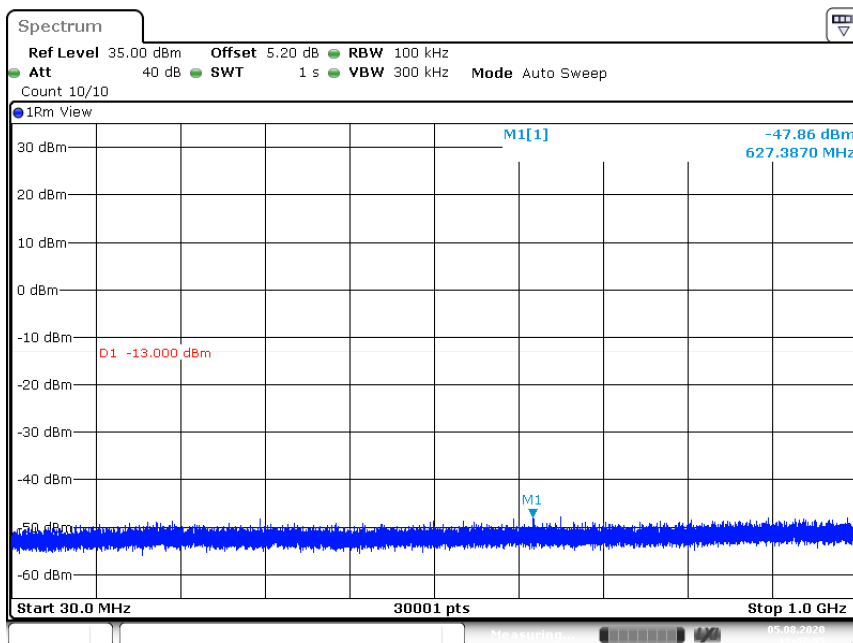


Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 14:43:49

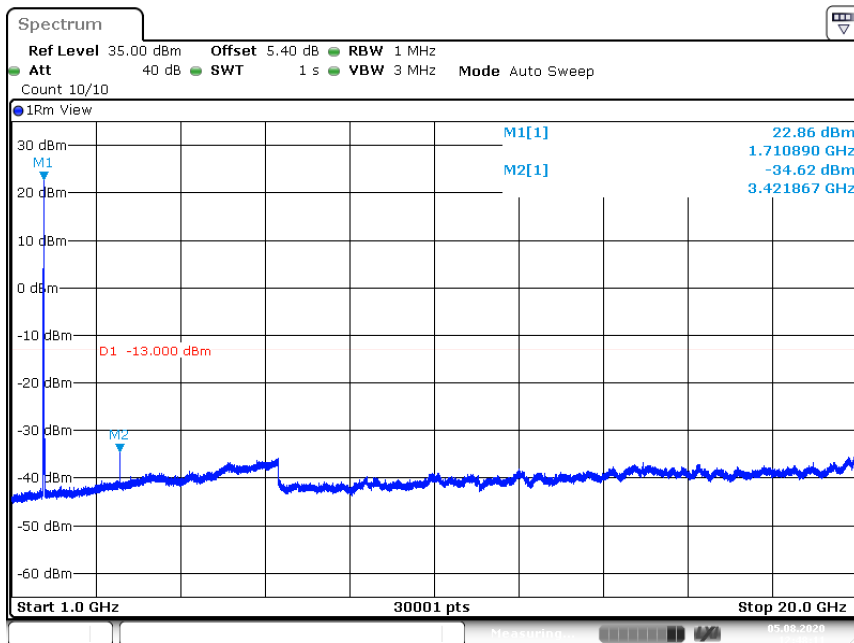
Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 12:47:55

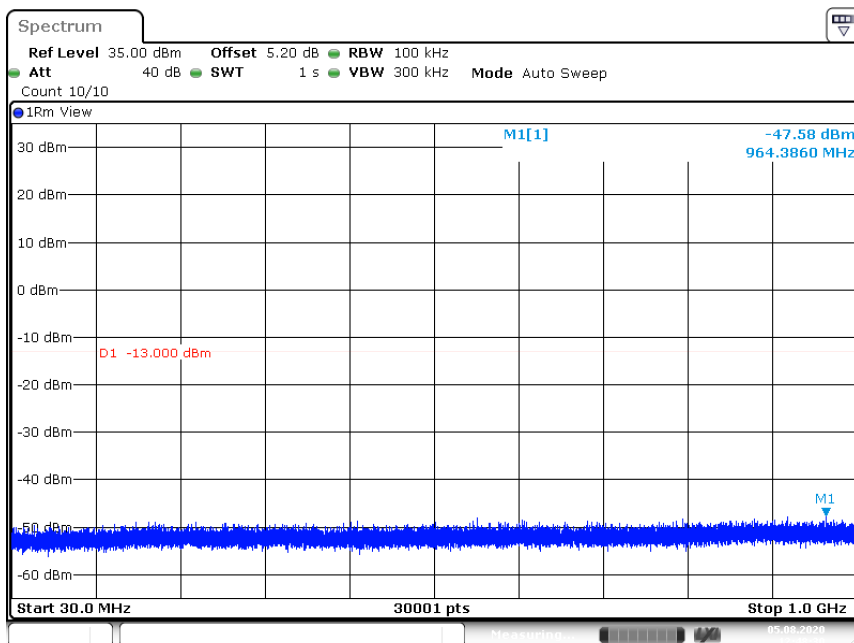


Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 12:48:12

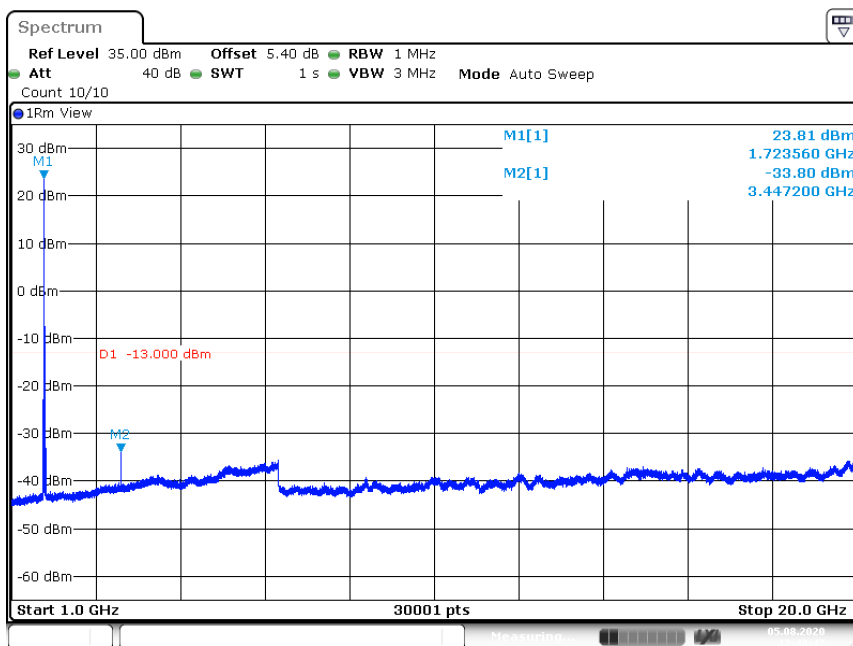
Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 12:48:31

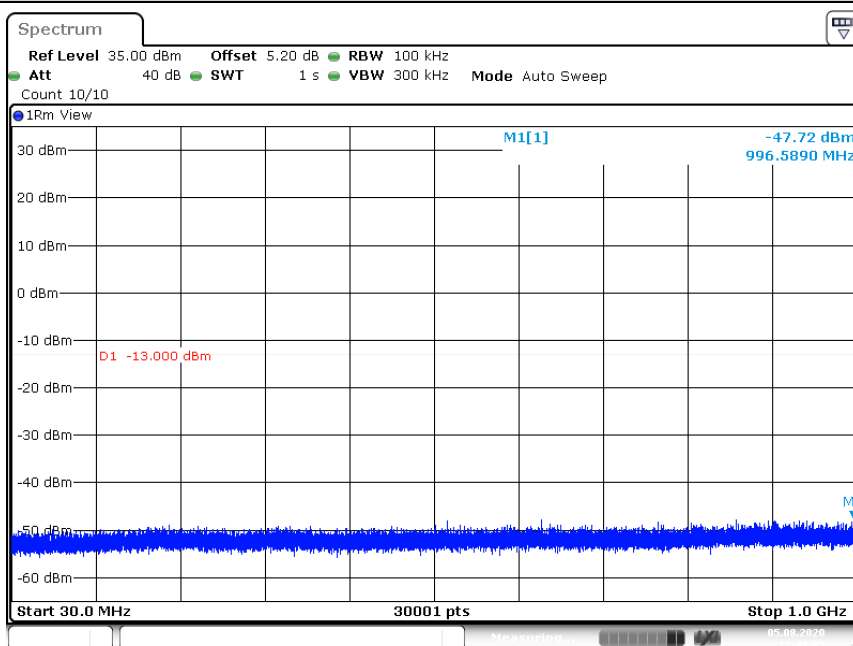


Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 12:48:47

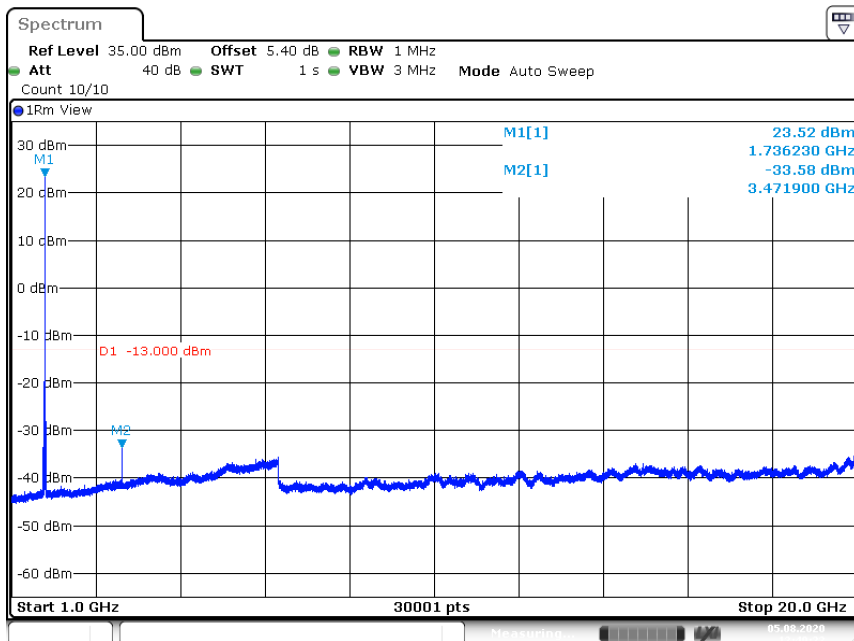
Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 12:49:06



Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 12:49:22



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
78.5024	-56.89	-13.00	43.89	Vertical
248.7944	-66.22	-13.00	53.22	Vertical
3422.5141	-53.67	-13.00	40.67	Vertical
6844.1281	-46.68	-13.00	33.68	Vertical
8555.1852	-47.99	-13.00	34.99	Vertical
17997.4999	-38.98	-13.00	25.98	Vertical
46.0058	-64.04	-13.00	51.04	Horizontal
159.7925	-65.25	-13.00	52.25	Horizontal
338.8634	-62.54	-13.00	49.54	Horizontal
3422.0141	-36.68	-13.00	23.68	Horizontal
5133.0711	-58.62	-13.00	45.62	Horizontal
6844.1281	-51.97	-13.00	38.97	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
78.5024	-57.11	-13.00	44.11	Vertical
247.2909	-66.69	-13.00	53.69	Vertical
3447.0149	-51.47	-13.00	38.47	Vertical
6894.6298	-44.17	-13.00	31.17	Vertical
8617.6873	-48.99	-13.00	35.99	Vertical
17999.5000	-39.65	-13.00	26.65	Vertical
45.1328	-64.21	-13.00	51.21	Horizontal
165.9523	-64.46	-13.00	51.46	Horizontal
339.0575	-61.58	-13.00	48.58	Horizontal
3447.0149	-34.76	-13.00	21.76	Horizontal
6894.6298	-49.81	-13.00	36.81	Horizontal
8618.1873	-53.04	-13.00	40.04	Horizontal



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
78.3569	-57.78	-13.00	44.78	Vertical
337.1659	-64.38	-13.00	51.38	Vertical
3472.0157	-51.93	-13.00	38.93	Vertical
6944.1315	-45.08	-13.00	32.08	Vertical
8680.6894	-48.28	-13.00	35.28	Vertical
17999.0000	-39.68	-13.00	26.68	Vertical
42.0771	-64.68	-13.00	51.68	Horizontal
165.6128	-65.51	-13.00	52.51	Horizontal
344.5867	-63.38	-13.00	50.38	Horizontal
3472.0157	-34.52	-13.00	21.52	Horizontal
6944.6315	-49.77	-13.00	36.77	Horizontal
16388.9463	-42.87	-13.00	29.87	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-3.90	-0.002267	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.00	-0.001154	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-4.50	-0.002597	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	4.50	0.002597	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-7.30	-0.004183	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	VL	NT	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	VN	NT	-5.70	-0.003314	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	VH	NT	-4.10	-0.002384	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	VL	NT	-3.40	-0.001962	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	VN	NT	-4.60	-0.002655	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	VH	NT	-5.60	-0.003232	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	VL	NT	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	VN	NT	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	VH	NT	-6.80	-0.003897	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-3.70	-0.002151	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-1.10	-0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	3.80	0.002209	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-3.70	-0.002151	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-5.30	-0.003081	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-0.60	-0.000349	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-1.80	-0.001047	±2.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-7.90	-0.004560	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.80	-0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	2.40	0.001385	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-4.20	-0.002424	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-3.70	-0.002136	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-2.30	-0.001328	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.20	0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-6.20	-0.003579	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	1.80	0.001032	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	1.90	0.001089	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	5.20	0.002980	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-0.40	-0.000229	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-1.90	-0.001089	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	-30	-6.30	-0.003663	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	-20	-7.20	-0.004186	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	-10	0.20	0.000116	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	0	-5.10	-0.002965	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	10	-4.90	-0.002849	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	20	-6.70	-0.003895	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	30	-4.80	-0.002791	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	40	-3.00	-0.001744	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	50	-4.70	-0.002733	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	-30	-5.40	-0.003117	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	-20	-6.30	-0.003636	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	-10	0.20	0.000116	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	0	-4.00	-0.002309	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	10	-1.30	-0.000750	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	20	-2.60	-0.001501	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	30	-3.40	-0.001962	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	40	-5.40	-0.003117	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	50	-3.10	-0.001789	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	-30	2.90	0.001662	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	-20	1.30	0.000745	±2.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band4	20MHz	16QAM	20300	32RB#0	NV	-10	1.80	0.001032	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	0	0.60	0.000344	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	10	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	20	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	30	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	40	-6.30	-0.003610	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	50	-1.30	-0.000745	±2.5	PASS

